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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 8260B

Lot #: H6D030205

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SEVERN TRENT LABORATORIES, INC.

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April 21, 2006

ANALYTICAL METHODS SUMMARY

H6D030205

PARAMETER	ANALYTICAL METHOD
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030205

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2HN3	001	G-2889-R1-SPENT ACTIVATED CARBON	03/28/06	
H2HPA	002	G-2893-R1-SCRUBBER BLOWDOWN	03/28/06	
H2HPW	003	G-2897-R1-POTW DISCHARGE	03/28/06	
H2HP3	004	G-2901-R1-CAUSTIC FEED	03/28/06	
H2HQD	005	G-2905-R1-MAKE-UP WATER	03/28/06	
H2HQR	006	G-2987-R2-SPENT ACTIVATED CARBON	03/29/06	
H2HQT	007	G-2991-R2-SCRUBBER BLOWDOWN	03/29/06	
H2HQW	008	G-2995-R2-POTW DISCHARGE	03/29/06	
H2HQ0	009	G-3003-R2-MAKE-UP WATER	03/29/06	
H2HQ4	010	G-3070-R3-SPENT ACTIVATED CARBON	03/30/06	
H2HRA	011	G-3074-R3-SCRUBBER BLOWDOWN	03/30/06	
H2HRF	012	G-3078-R3-POTW DISCHARGE	03/30/06	
H2HRH	013	G-3086-R3-MAKE-UP WATER	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030205

The results reported herein are applicable to the samples submitted for analysis only.

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The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

The container label for sample G-2886 did not match the associated chain of custody documentation. The laboratory processed the sample using the information on the container label.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Waste Sample Preparation and Analysis

Waste samples were analyzed for the volatile organic target analytes by purge and trap GCMS using STL Knoxville standard operating procedure KNOX-MS-0015, based on the following method:

- SW-846 8260B, "Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)"

Each sample is prepared by adding a known amount of sample to methanol and spiking with surrogates and matrix spike analytes (as needed). Volatile compounds are

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PROJECT NARRATIVE
H6D030205

introduced into the gas chromatograph by the purge and trap method. The components are separated using the chromatograph and detected using a mass spectrometer, which provides both qualitative and quantitative information.

Waste sample results were calculated using the following equation:

$$\text{Concentration, } \mu\text{g/g or mg/kg} = \frac{C \cdot DF \cdot Wd \cdot V_t}{V_a \cdot Ws}$$

Where:

C	= On column concentration, ug/L
DF	= Dilution factor
Wd	= Volume of water purged, L
Vt	= Final methanol extract volume, uL
Va	= Volume of extract analyzed, µL
Ws	= Weight of sample extracted, g

Neutralization of Westates CPT Caustic Solution Samples

There was one original grab sample only, and compositing was not required. Using a graduated pipette, 50 mL of the sample was transferred to a clean 250 mL volumetric flask. The flask and its contents were chilled in an ice bath. When all solutions were chilled to ice temperature, approximately 110 mL of cold HCl (CON) were added to the solution. There was some slight warming of the solution, but the neck of the volumetric remained cool, condensing vapors that were formed. The resulting pH was approximately 1. The diluted, neutralized samples were transferred into five pre-labeled vials.

The sample prepared is identified by copies of the label below:

H2HP3 H6D030205-004
Composite Sample, Neutralized with HCl
50 mL Original Sample to 250 mL Final Volume

The pH of many samples was greater than 2. The samples were analyzed within the normal 14 day holding time. EPA has indicated that some aromatic compounds in

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wastewater samples, notably benzene, toluene, and ethyl benzene, may be susceptible to biological degradation if samples are not preserved to a pH of 2.

Surrogate recoveries for samples G-2889-R1-Spent Activated Carbon, G-2987-R2-Spent Activated Carbon and G-3070-R3-Spent Activated Carbon were outside QC limits. Since the matrix spike/matrix spike duplicate for this sample demonstrated similar surrogate recoveries and the matrix was the same for each sample analysis, the results are attributed to sample matrix effects.

Surrogate recoveries for sample G-2901-R1-Caustic Feed were outside QC limits. Since the matrix spike/matrix spike duplicate for this sample demonstrated similar surrogate recoveries, the results are attributed to sample matrix effects.

Samples G-2889-R1-Spent Activated Carbon, G-2987-R2- Spent Activated Carbon and G-3070-R3- Spent Activated Carbon were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; the reporting limits were adjusted accordingly.

The matrix spike/matrix spike duplicate recoveries and RPD results for sample H2HN31AC/1AD were not acceptable for most analytes. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are attributed to matrix effects and high analyte concentrations in the sample relative to the spike level.

The matrix spike/matrix spike duplicate recoveries for samples H2HPA1AC/1AD and H2HP31AC/1AD were not acceptable for several analytes. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are attributed to matrix effects.

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Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-001 **Work Order #...:** H2HN31AA **Matrix.....:** SOLID
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3500 J,B**	**5000**	**ug/kg**	**1200**
Acrylonitrile	ND	25000	ug/kg	3800
Benzene	**3800**	**1200**	**ug/kg**	**140**
Bromobenzene	ND	1200	ug/kg	260
Bromochloromethane	ND	1200	ug/kg	170
Bromodichloromethane	ND	1200	ug/kg	120
Bromoform	ND	1200	ug/kg	210
Bromomethane	**740 J,B**	**2500**	**ug/kg**	**700**
2-Butanone	**14000**	**5000**	**ug/kg**	**1000**
n-Butylbenzene	ND	1200	ug/kg	380
sec-Butylbenzene	ND	1200	ug/kg	380
tert-Butylbenzene	ND	1200	ug/kg	340
Carbon disulfide	ND	1200	ug/kg	150
Carbon tetrachloride	ND	1200	ug/kg	120
Chlorobenzene	ND	1200	ug/kg	130
Chlorodibromomethane	ND	1200	ug/kg	120
Chloroethane	ND	2500	ug/kg	280
Chloroform	**1900**	**1200**	**ug/kg**	**120**
Chloromethane	ND	2500	ug/kg	1000
2-Chlorotoluene	ND	1200	ug/kg	300
4-Chlorotoluene	ND	1200	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2500	ug/kg	140
1,2-Dibromoethane	ND	1200	ug/kg	180
Dibromomethane	ND	1200	ug/kg	120
1,2-Dichlorobenzene	ND	1200	ug/kg	320
1,3-Dichlorobenzene	ND	1200	ug/kg	330
1,4-Dichlorobenzene	ND	1200	ug/kg	330
Dichlorodifluoromethane	ND	2500	ug/kg	160
1,1-Dichloroethane	**150 J**	**1200**	**ug/kg**	**120**
1,2-Dichloroethane	**600 J**	**1200**	**ug/kg**	**140**
cis-1,2-Dichloroethene	**320 J**	**1200**	**ug/kg**	**120**
trans-1,2-Dichloroethene	ND	1200	ug/kg	190
1,1-Dichloroethene	**500 J**	**1200**	**ug/kg**	**240**
1,2-Dichloropropane	ND	1200	ug/kg	180
1,3-Dichloropropane	ND	1200	ug/kg	220
2,2-Dichloropropane	ND	1200	ug/kg	120
cis-1,3-Dichloropropene	ND	1200	ug/kg	120
trans-1,3-Dichloropropene	ND	1200	ug/kg	150

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STL Knoxville - ACS

Client Sample ID: G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-001 **Work Order #...:** H2HN31AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1200	ug/kg	120
Ethylbenzene	ND	1200	ug/kg	240
Hexachlorobutadiene	ND	1200	ug/kg	550
2-Hexanone	ND	5000	ug/kg	800
Iodomethane	**550 J,B**	**2500**	**ug/kg**	**490**
Isopropylbenzene	ND	1200	ug/kg	280
p-Isopropyltoluene	ND	1200	ug/kg	420
Methylene chloride	ND	1200	ug/kg	420
4-Methyl-2-pentanone	ND	5000	ug/kg	800
Naphthalene	ND	1200	ug/kg	240
n-Propylbenzene	ND	1200	ug/kg	360
Styrene	ND	1200	ug/kg	240
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	160
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	210
Tetrachloroethene	**1600**	**1200**	**ug/kg**	**210**
Tetrahydrofuran	**2700 J**	**5000**	**ug/kg**	**1000**
Toluene	**320 J**	**1200**	**ug/kg**	**180**
1,2,3-Trichlorobenzene	ND	1200	ug/kg	360
1,2,4-Trichloro-benzene	ND	1200	ug/kg	340
1,1,1-Trichloroethane	**5600**	**1200**	**ug/kg**	**120**
1,1,2-Trichloroethane	ND	1200	ug/kg	180
Trichloroethene	**43000**	**1200**	**ug/kg**	**140**
Trichlorofluoromethane	ND	2500	ug/kg	320
1,2,3-Trichloropropane	ND	1200	ug/kg	270
1,1,2-Trichloro-1,2,2-trifluoroethane	**1700**	**1200**	**ug/kg**	**200**
1,2,4-Trimethylbenzene	ND	1200	ug/kg	320
1,3,5-Trimethylbenzene	ND	1200	ug/kg	310
Vinyl acetate	ND	2500	ug/kg	600
Vinyl chloride	ND	1200	ug/kg	140
m-Xylene & p-Xylene	ND	1200	ug/kg	480
o-Xylene	ND	1200	ug/kg	210
Xylenes (total)	ND	1200	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	12 *	(42 - 138)
1,2-Dichloroethane-d4	11 *	(38 - 144)
Toluene-d8	0.99 *	(52 - 137)
Bromofluorobenzene	4.6 *	(54 - 151)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #: H6D030205-001 **Work Order #:** H2HN31AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Propene	115-07-1	1300 NJ	M	0.8469	ug/kg
Isobutane	75-28-5	18000 NJ	M	0.9817	ug/kg
Unknown		3800 NJ	M	1.094	ug/kg
Unknown		1700 NJ	M	2.6054	ug/kg
Cyclopentane, methyl-	96-37-7	1500 NJ	M	3.3113	ug/kg
Cyclohexane	110-82-7	1600 NJ	M	3.8344	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2893-R1-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-002 **Work Order #...:** H2HPA1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.4
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**0.99 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**0.92 J**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2893-R1-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-002 **Work Order #...:** H2HPA1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.55 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(79 - 120)
1,2-Dichloroethane-d4	103	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2893-R1-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #: H6D030205-002 **Work Order #:** H2HPA1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2897-R1-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-003 **Work Order #...:** H2HPW1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**2.0**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.4**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.14 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2897-R1-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-003 **Work Order #...:** H2HPW1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.35 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.13 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(79 - 120)
1,2-Dichloroethane-d4	103	(71 - 127)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	89	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2897-R1-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #: H6D030205-003 **Work Order #:** H2HPW1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2901-R1-CAUSTIC FEED

GC/MS Volatiles

Lot-Sample #...: H6D030205-004 **Work Order #...:** H2HP31AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.5 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	**0.18 J**	**1.0**	**ug/L**	**0.11**
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**0.86 J**	**1.0**	**ug/L**	**0.10**
Bromoform	**2.8**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.0**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.17 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.13 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2901-R1-CAUSTIC FEED

GC/MS Volatiles

Lot-Sample #...: H6D030205-004 **Work Order #...:** H2HP31AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.53 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.24 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	136 *	(79 - 120)
1,2-Dichloroethane-d4	182 *	(71 - 127)
Toluene-d8	77 *	(80 - 120)
Bromofluorobenzene	92	(69 - 126)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2901-R1-CAUSTIC FEED

GC/MS Volatiles

Lot-Sample #: H6D030205-004 **Work Order #:** H2HP31AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2905-R1-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-005 **Work Order #...:** H2HQD1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.4 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**3.2**	**1.0**	**ug/L**	**0.10**
Bromoform	**40**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**13**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.56 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2905-R1-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-005 **Work Order #...:** H2HQD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.55 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.33 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	102	(80 - 120)
Bromofluorobenzene	92	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2905-R1-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #: H6D030205-005 **Work Order #:** H2HQD1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-006 **Work Order #...:** H2HQR1AA **Matrix.....:** SOLID
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3600 J,B**	**5000**	**ug/kg**	**1200**
Acrylonitrile	ND	25000	ug/kg	3800
Benzene	**1700**	**1200**	**ug/kg**	**140**
Bromobenzene	ND	1200	ug/kg	260
Bromochloromethane	ND	1200	ug/kg	170
Bromodichloromethane	ND	1200	ug/kg	120
Bromoform	ND	1200	ug/kg	210
Bromomethane	**750 J,B**	**2500**	**ug/kg**	**700**
2-Butanone	**3200 J**	**5000**	**ug/kg**	**1000**
n-Butylbenzene	ND	1200	ug/kg	380
sec-Butylbenzene	ND	1200	ug/kg	380
tert-Butylbenzene	ND	1200	ug/kg	340
Carbon disulfide	ND	1200	ug/kg	150
Carbon tetrachloride	ND	1200	ug/kg	120
Chlorobenzene	ND	1200	ug/kg	130
Chlorodibromomethane	ND	1200	ug/kg	120
Chloroethane	ND	2500	ug/kg	280
Chloroform	**1300**	**1200**	**ug/kg**	**120**
Chloromethane	**2300 J**	**2500**	**ug/kg**	**1000**
2-Chlorotoluene	ND	1200	ug/kg	300
4-Chlorotoluene	ND	1200	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2500	ug/kg	140
1,2-Dibromoethane	ND	1200	ug/kg	180
Dibromomethane	ND	1200	ug/kg	120
1,2-Dichlorobenzene	ND	1200	ug/kg	320
1,3-Dichlorobenzene	ND	1200	ug/kg	330
1,4-Dichlorobenzene	ND	1200	ug/kg	330
Dichlorodifluoromethane	ND	2500	ug/kg	160
1,1-Dichloroethane	**360 J**	**1200**	**ug/kg**	**120**
1,2-Dichloroethane	**150 J**	**1200**	**ug/kg**	**140**
cis-1,2-Dichloroethene	**170 J**	**1200**	**ug/kg**	**120**
trans-1,2-Dichloroethene	ND	1200	ug/kg	190
1,1-Dichloroethene	**670 J**	**1200**	**ug/kg**	**240**
1,2-Dichloropropane	ND	1200	ug/kg	180
1,3-Dichloropropane	ND	1200	ug/kg	220
2,2-Dichloropropane	ND	1200	ug/kg	120
cis-1,3-Dichloropropene	ND	1200	ug/kg	120
trans-1,3-Dichloropropene	ND	1200	ug/kg	150

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STL Knoxville - ACS

Client Sample ID: G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-006 **Work Order #...:** H2HQR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1200	ug/kg	120
Ethylbenzene	ND	1200	ug/kg	240
Hexachlorobutadiene	ND	1200	ug/kg	550
2-Hexanone	ND	5000	ug/kg	800
Iodomethane	ND	2500	ug/kg	490
Isopropylbenzene	ND	1200	ug/kg	280
p-Isopropyltoluene	ND	1200	ug/kg	420
Methylene chloride	ND	1200	ug/kg	420
4-Methyl-2-pentanone	ND	5000	ug/kg	800
Naphthalene	ND	1200	ug/kg	240
n-Propylbenzene	ND	1200	ug/kg	360
Styrene	ND	1200	ug/kg	240
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	160
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	210
Tetrachloroethene	**2300**	**1200**	**ug/kg**	**210**
Tetrahydrofuran	**1100 J**	**5000**	**ug/kg**	**1000**
Toluene	**770 J**	**1200**	**ug/kg**	**180**
1,2,3-Trichlorobenzene	ND	1200	ug/kg	360
1,2,4-Trichloro-benzene	ND	1200	ug/kg	340
1,1,1-Trichloroethane	**14000**	**1200**	**ug/kg**	**120**
1,1,2-Trichloroethane	ND	1200	ug/kg	180
Trichloroethene	**32000**	**1200**	**ug/kg**	**140**
Trichlorofluoromethane	ND	2500	ug/kg	320
1,2,3-Trichloropropane	ND	1200	ug/kg	270
1,1,2-Trichloro-1,2,2-trifluoroethane	**1600**	**1200**	**ug/kg**	**200**
1,2,4-Trimethylbenzene	ND	1200	ug/kg	320
1,3,5-Trimethylbenzene	ND	1200	ug/kg	310
Vinyl acetate	ND	2500	ug/kg	600
Vinyl chloride	ND	1200	ug/kg	140
m-Xylene & p-Xylene	ND	1200	ug/kg	480
o-Xylene	ND	1200	ug/kg	210
Xylenes (total)	ND	1200	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	9.6 *	(42 - 138)
1,2-Dichloroethane-d4	12 *	(38 - 144)
Toluene-d8	1.3 *	(52 - 137)
Bromofluorobenzene	1.7 *	(54 - 151)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #: H6D030205-006 **Work Order #:** H2HQR1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Propene	115-07-1	1600 NJ	M	0.847	ug/kg
Isobutane	75-28-5	62000 NJ	M	0.9785	ug/kg
Unknown		19000 NJ	M	1.0941	ug/kg
Pentane	109-66-0	3200 NJ	M	1.6685	ug/kg
Unknown		2000 NJ	M	2.4514	ug/kg
Pentane, 3-methyl-	96-14-0	2200 NJ	M	2.6055	ug/kg
Hexane	110-54-3	1900 NJ	M	2.8237	ug/kg
Unknown		1300 NJ	M	3.244	ug/kg
Cyclopentane, methyl-	96-37-7	5900 NJ	M	3.3114	ug/kg
Cyclohexane	110-82-7	7300 NJ	M	3.8345	ug/kg
Unknown		9800 NJ	M	4.1425	ug/kg
Cyclohexane, methyl-	108-87-2	3900 NJ	M	4.7426	ug/kg
Pentane, 2,3,4-trimethyl-	565-75-3	2000 NJ	M	5.0827	ug/kg
Pentane, 2,3,3-trimethyl-	560-21-4	2800 NJ	M	5.179	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2991-R2-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-007 **Work Order #...:** H2HQT1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.1 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**0.92 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**0.87 J**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2991-R2-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-007 **Work Order #...:** H2HQT1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.3**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.41 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(79 - 120)
1,2-Dichloroethane-d4	113	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	97	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2991-R2-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #: H6D030205-007 **Work Order #:** H2HQT1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2995-R2-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-008 **Work Order #...:** H2HQW1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**0.89 J**	**1.0**	**ug/L**	**0.10**
Bromoform	**2.0**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.3**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.15 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2995-R2-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-008 **Work Order #...:** H2HQW1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.0**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.43 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	110	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2995-R2-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #: H6D030205-008 **Work Order #:** H2HQW1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3003-R2-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-009 **Work Order #...:** H2HQ01AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**4.1**	**1.0**	**ug/L**	**0.10**
Bromoform	**32**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**13**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.64 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.13 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3003-R2-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-009 **Work Order #...:** H2HQ01AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.4**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.31 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.41 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(79 - 120)
1,2-Dichloroethane-d4	113	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3003-R2-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #: H6D030205-009 **Work Order #:** H2HQ01AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-010 **Work Order #...:** H2HQ41AA **Matrix.....:** SOLID
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**2400 J,B**	**5000**	**ug/kg**	**1200**
Acrylonitrile	ND	25000	ug/kg	3800
Benzene	**1000 J**	**1200**	**ug/kg**	**140**
Bromobenzene	ND	1200	ug/kg	260
Bromochloromethane	ND	1200	ug/kg	170
Bromodichloromethane	ND	1200	ug/kg	120
Bromoform	ND	1200	ug/kg	210
Bromomethane	ND	2500	ug/kg	700
2-Butanone	**1200 J**	**5000**	**ug/kg**	**1000**
n-Butylbenzene	ND	1200	ug/kg	380
sec-Butylbenzene	ND	1200	ug/kg	380
tert-Butylbenzene	ND	1200	ug/kg	340
Carbon disulfide	ND	1200	ug/kg	150
Carbon tetrachloride	ND	1200	ug/kg	120
Chlorobenzene	ND	1200	ug/kg	130
Chlorodibromomethane	ND	1200	ug/kg	120
Chloroethane	ND	2500	ug/kg	280
Chloroform	**1100 J**	**1200**	**ug/kg**	**120**
Chloromethane	ND	2500	ug/kg	1000
2-Chlorotoluene	ND	1200	ug/kg	300
4-Chlorotoluene	ND	1200	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2500	ug/kg	140
1,2-Dibromoethane	ND	1200	ug/kg	180
Dibromomethane	ND	1200	ug/kg	120
1,2-Dichlorobenzene	ND	1200	ug/kg	320
1,3-Dichlorobenzene	ND	1200	ug/kg	330
1,4-Dichlorobenzene	ND	1200	ug/kg	330
Dichlorodifluoromethane	ND	2500	ug/kg	160
1,1-Dichloroethane	**260 J**	**1200**	**ug/kg**	**120**
1,2-Dichloroethane	**210 J**	**1200**	**ug/kg**	**140**
cis-1,2-Dichloroethene	**150 J**	**1200**	**ug/kg**	**120**
trans-1,2-Dichloroethene	ND	1200	ug/kg	190
1,1-Dichloroethene	**840 J**	**1200**	**ug/kg**	**240**
1,2-Dichloropropane	ND	1200	ug/kg	180
1,3-Dichloropropane	ND	1200	ug/kg	220
2,2-Dichloropropane	ND	1200	ug/kg	120
cis-1,3-Dichloropropene	ND	1200	ug/kg	120
trans-1,3-Dichloropropene	ND	1200	ug/kg	150

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STL Knoxville - ACS

Client Sample ID: G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-010 **Work Order #...:** H2HQ41AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1200	ug/kg	120
Ethylbenzene	ND	1200	ug/kg	240
Hexachlorobutadiene	ND	1200	ug/kg	550
2-Hexanone	ND	5000	ug/kg	800
Iodomethane	ND	2500	ug/kg	490
Isopropylbenzene	ND	1200	ug/kg	280
p-Isopropyltoluene	ND	1200	ug/kg	420
Methylene chloride	ND	1200	ug/kg	420
4-Methyl-2-pentanone	ND	5000	ug/kg	800
Naphthalene	**600 J**	**1200**	**ug/kg**	**240**
n-Propylbenzene	ND	1200	ug/kg	360
Styrene	ND	1200	ug/kg	240
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	160
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	210
Tetrachloroethene	**1100 J**	**1200**	**ug/kg**	**210**
Tetrahydrofuran	ND	5000	ug/kg	1000
Toluene	**210 J**	**1200**	**ug/kg**	**180**
1,2,3-Trichlorobenzene	ND	1200	ug/kg	360
1,2,4-Trichloro-benzene	ND	1200	ug/kg	340
1,1,1-Trichloroethane	**11000**	**1200**	**ug/kg**	**120**
1,1,2-Trichloroethane	ND	1200	ug/kg	180
Trichloroethene	**20000**	**1200**	**ug/kg**	**140**
Trichlorofluoromethane	ND	2500	ug/kg	320
1,2,3-Trichloropropane	ND	1200	ug/kg	270
1,1,2-Trichloro-1,2,2-trifluoroethane	**1100 J**	**1200**	**ug/kg**	**200**
1,2,4-Trimethylbenzene	ND	1200	ug/kg	320
1,3,5-Trimethylbenzene	ND	1200	ug/kg	310
Vinyl acetate	ND	2500	ug/kg	600
Vinyl chloride	ND	1200	ug/kg	140
m-Xylene & p-Xylene	ND	1200	ug/kg	480
o-Xylene	ND	1200	ug/kg	210
Xylenes (total)	ND	1200	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	9.3 *	(42 - 138)
1,2-Dichloroethane-d4	10 *	(38 - 144)
Toluene-d8	0.75 *	(52 - 137)
Bromofluorobenzene	2.2 *	(54 - 151)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #: H6D030205-010 **Work Order #:** H2HQ41AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Isobutane	75-28-5	6500 NJ	M	0.9784	ug/kg
Unknown		1500 NJ	M	1.094	ug/kg
Naphthalene, 1,3-dimethyl-	575-41-7	2200 NJ	M	10.05	ug/kg
Naphthalene, 2,6-dimethyl-	581-42-0	1600 NJ	M	10.245	ug/kg
Naphthalene, 1,2,3,4-tetrahydr	3877-19-8	1300 NJ	M	12.167	ug/kg
Naphthalene, 1,2,3,4-tetrahydr	2809-64-5	3500 NJ	M	12.626	ug/kg
Naphthalene, 1,2,3,4-tetrahydr	2809-64-5	2300 NJ	M	12.918	ug/kg
Naphthalene, 1-methyl-	90-12-0	11000 NJ	M	13.085	ug/kg
Naphthalene, 1-methyl-	90-12-0	5400 NJ	M	13.252	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3074-R3-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-011 **Work Order #...:** H2HRA1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.6 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**1.0**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**0.89 J**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3074-R3-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-011 **Work Order #...:** H2HRA1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.84 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
1,2-Dichloroethane-d4	115	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3074-R3-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #: H6D030205-011 **Work Order #:** H2HRA1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3078-R3-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-012 **Work Order #...:** H2HRF1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**1.0**	**1.0**	**ug/L**	**0.10**
Bromoform	**2.1**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	**0.16 J**	**1.0**	**ug/L**	**0.10**
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.4**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.14 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3078-R3-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-012 **Work Order #...:** H2HRF1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.65 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.12 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	109	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3078-R3-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #: H6D030205-012 **Work Order #:** H2HRF1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3086-R3-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-013 **Work Order #...:** H2HRH1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.5 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.5**	**1.0**	**ug/L**	**0.10**
Bromoform	**28**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**8.9**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.62 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.12 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3086-R3-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-013 **Work Order #...:** H2HRH1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.0**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.45 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.31 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
1,2-Dichloroethane-d4	107	(71 - 127)
Toluene-d8	102	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3086-R3-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #: H6D030205-013 **Work Order #:** H2HRH1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 8270

Lot #: H6D030246

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 26, 2006

ANALYTICAL METHODS SUMMARY

H6D030246

PARAMETER	ANALYTICAL METHOD
Semivolatile Organic Compounds by GC/MS	SW846 8270C

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030246

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H34	001	G-2890-R1-SPENT ACTIVATED CARBON	03/28/06	
H2H35	002	G-2894-R1-SCRUBBER BLOWDOWN	03/28/06	
H2H37	003	G-2898-R1-POTW DISCHARGE	03/28/06	
H2H38	004	G-2902-R1-CAUSTIC FEED	03/28/06	
H2H39	005	G-2906-R1-MAKE-UP WATER	03/28/06	
H2H4A	006	G-2988-R2-SPENT ACTIVATED CARBON	03/29/06	
H2H4C	007	G-2992-R2-SCRUBBER BLOWDOWN	03/29/06	
H2H4D	008	G-2996-R2-POTW DISCHARGE	03/29/06	
H2H4E	009	G-3004-R2-MAKE-UP WATER	03/29/06	
H2H4F	010	G-3071-R3-SPENT ACTIVATED CARBON	03/30/06	
H2H4G	011	G-3075-R3-SCRUBBER BLOWDOWN	03/30/06	
H2H4H	012	G-3079-R3-POTW DISCHARGE	03/30/06	
H2H4J	013	G-3087-R3-MAKE-UP WATER	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030246

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

The dilution factor reported on the sample result form represents a combination of factors (such as dilution, sample weight/volume adjustment, split ratio, etc.) used to adjust the reporting limits and method detection limits.

Surrogate recoveries for sample G-2890-R1-Spent Activated Carbon were outside QC limits. Since the matrix spike/matrix spike duplicate for this sample demonstrated similar surrogate recoveries, the results are attributed to sample matrix effects. In addition, one or more surrogate recoveries for samples G-2988-R2-Spent Activated Carbon and G-3071-R3-Spent Activated Carbon was outside QC limits. Since these samples are similar in nature, the results are attributed to sample matrix effects.

One or more surrogate recoveries for samples G-2894-R1-Scrubber Blowdown, G-2898-R1-POTW Discharge, G-2902-R1-Caustic Feed, G-3004-R2-Make-Up-Water, G-3075-R3-Scrubber Blowdown and G-3087-R3-Make-Up Water were outside QC limits. However, reextraction and reanalysis were not possible due to insufficient sample.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H6D030246

Samples G-2890-R1-Spent Activated Carbon, G-2988-R2-Spent Activated Carbon and G-3071-R3-Spent Activated Carbon were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; the reporting limits were adjusted accordingly.

The matrix spike/matrix spike duplicate recoveries for sample G-2890-R1-Spent Activated Carbon and G-2902-R1-Caustic Feed were outside QC limits for several analytes. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are attributed to matrix effects.

One surrogate recovery for sample G-2906-R1-Make-Up Water matrix spike duplicate was outside QC limits.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**570 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1300 J**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**200 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	ND	1600	ug/kg	320
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**26000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**1900**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

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STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	** 1600	ug/kg	** 340
Dimethyl phthalate	ND	** 1600	ug/kg	** 120
1,3-Dinitrobenzene	ND	** 1600	ug/kg	**95**
4,6-Dinitro-2-methylphenol	ND	** 8000	ug/kg	** 850
2,4-Dinitrophenol	ND	** 8000	ug/kg	** 800
2,4-Dinitrotoluene	ND	** 1600	ug/kg	** 340
2,6-Dinitrotoluene	ND	** 1600	ug/kg	** 340
Di-n-octyl phthalate	ND	** 1600	ug/kg	** 150
Diphenylamine	ND	** 1600	ug/kg	** 150
1,2-Diphenylhydrazine	ND	** 1600	ug/kg	** 120
Fluoranthene	**140 J**	**** 1600**	**ug/kg**	**** 130**
Fluorene	**730 J**	**** 1600**	**ug/kg**	**** 85**
Hexachlorobenzene	ND	** 1600	ug/kg	** 90
Hexachlorobutadiene	ND	** 1600	ug/kg	** 85
Hexachlorocyclopentadiene	ND	** 8000	ug/kg	** 850
Hexachloroethane	ND	** 1600	ug/kg	** 110
Indeno(1,2,3-cd)pyrene	ND	** 1600	ug/kg	** 90
Isophorone	ND	** 1600	ug/kg	** 340
2-Methylnaphthalene	**7700**	**** 1600**	**ug/kg**	**** 85**
2-Methylphenol	ND	** 1600	ug/kg	** 100
3-Methylphenol & 4-Methylphenol	**890 J**	**** 1600**	**ug/kg**	**** 220**
Naphthalene	**6500**	**** 1600**	**ug/kg**	**** 85**
2-Nitroaniline	ND	** 8000	ug/kg	** 160
3-Nitroaniline	ND	** 8000	ug/kg	** 95
4-Nitroaniline	ND	** 8000	ug/kg	** 340
Nitrobenzene	ND	** 1600	ug/kg	** 340
2-Nitrophenol	ND	** 1600	ug/kg	** 340
4-Nitrophenol	ND	** 8000	ug/kg	** 850
N-Nitrosodimethylamine	ND	** 1600	ug/kg	** 85
N-Nitrosodiphenylamine	ND	** 1600	ug/kg	** 120
N-Nitrosodi-n-propylamine	ND	** 1600	ug/kg	** 340
Pentachlorophenol	ND	** 8000	ug/kg	** 850
Phenanthrene	**920 J**	**** 1600**	**ug/kg**	**** 95**
Phenol	**2000**	**** 1600**	**ug/kg**	**** 85**
2,2'-oxybis(1-Chloropropane)	ND	** 1600	ug/kg	** 85
Pyrene	**210 J**	**** 1600**	**ug/kg**	**** 140**
Pyridine	ND	** 3300	ug/kg	** 85
1,2,4-Trichlorobenzene	**2000**	**** 1600**	**ug/kg**	**** 85**

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STL Knoxville - ACS

Client Sample ID: G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-001 **Work Order #...:** H2H341AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	34 *	(44 - 93)
Phenol-d5	44 *	(47 - 98)
Nitrobenzene-d5	43 *	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
2,4,6-Tribromophenol	5.5 *	(42 - 124)
Terphenyl-d14	6.6 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2890-R1-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-001 **Work Order #:** H2H341AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	24000 NJ	M	2.2315	ug/kg
Tetrachloroethylene	127-18-4	28000 NJ	M	2.537	ug/kg
Ethylbenzene	100-41-4	5900 NJ	M	2.9366	ug/kg
p-Xylene	106-42-3	20000 NJ	M	3.0012	ug/kg
Benzene, 1,3-dimethyl-	108-38-3	8600 NJ	M	3.1951	ug/kg
Ethanol, 2-butoxy-	111-76-2	3200 NJ	M	3.2597	ug/kg
Benzene, (1-methylethyl)-	98-82-8	6800 NJ	M	3.4477	ug/kg
Unknown		5900 NJ	M	3.7415	ug/kg
Unknown		7400 NJ	M	4.0235	ug/kg
Unknown		3100 NJ	M	4.2644	ug/kg
Limonene	138-86-3	35000 NJ	M	4.3056	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	3100 NJ	M	4.4818	ug/kg
Benzene, 1-methyl-3-(1-methyle	535-77-3	2500 NJ	M	4.5465	ug/kg
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	2500 NJ	M	4.7404	ug/kg
Undecane	1120-21-4	4600 NJ	M	4.8814	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1500 NJ	M	5.0988	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	3100 NJ	M	5.1399	ug/kg
Unknown		1400 NJ	M	5.4396	ug/kg
Unknown		1800 NJ	M	5.8097	ug/kg
Tridecane	629-50-5	1800 NJ	M	6.7028	ug/kg
Naphthalene, 2-methyl-	91-57-6	2500 NJ	M	6.9437	ug/kg
Biphenyl	92-52-4	1500 NJ	M	7.6018	ug/kg
Tetradecane	629-59-4	3300 NJ	M	7.684	ug/kg
Naphthalene, 2,3-dimethyl-	581-40-8	1600 NJ	M	7.9661	ug/kg
Unknown		1700 NJ	M	8.1776	ug/kg
cis-1,2,3,6-Tetrahydrophthalim	27813-21-4	6600 NJ	M	8.3832	ug/kg
1,1'-Biphenyl, 2,3'-dimethyl-	611-43-8	1400 NJ	M	8.677	ug/kg
Diethyltoluamide	134-62-3	2600 NJ	M	8.959	ug/kg
Unknown		3900 NJ	M	11.655	ug/kg
1,4-dioxane	123-91-1	3100 NJ	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-002 **Work Order #...:** H2H351AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	39	(36 - 98)
Phenol-d5	43 *	(49 - 109)
Nitrobenzene-d5	52 *	(57 - 120)
2-Fluorobiphenyl	59	(56 - 118)
2,4,6-Tribromophenol	62	(55 - 134)
Terphenyl-d14	66	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-2894-R1-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-002 **Work Order #:** H2H351AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		16 NJ	M	3.9002	ug/L
Unknown		17 NJ	M	4.1117	ug/L
Unknown		5.8 NJ	M	5.6041	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)- ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-003 **Work Order #...:** H2H371AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	41	(36 - 98)
Phenol-d5	50	(49 - 109)
Nitrobenzene-d5	67	(57 - 120)
2-Fluorobiphenyl	82	(56 - 118)
2,4,6-Tribromophenol	54 *	(55 - 134)
Terphenyl-d14	91	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-2898-R1-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-003 **Work Order #:** H2H371AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.2 NJ	M	3.6241	ug/L
Unknown		150 NJ	M	3.9061	ug/L
Unknown		97 NJ	M	4.1117	ug/L
Unknown		52 NJ	M	5.6041	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	5.9 NJ	M	10.275	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	100	ug/L	5.0
Acenaphthylene	ND	100	ug/L	5.8
Acetophenone	ND	100	ug/L	7.3
Aniline	ND	100	ug/L	8.7
Anthracene	ND	100	ug/L	8.2
Benz(a)anthracene	ND	100	ug/L	9.3
Benzidine	ND	1000	ug/L	250
Benzo(b)fluoranthene	ND	100	ug/L	10
Benzo(k)fluoranthene	ND	100	ug/L	13
Benzoic acid	ND	500	ug/L	90
Benzo(ghi)perylene	ND	100	ug/L	7.0
Benzo(a)pyrene	ND	100	ug/L	17
Benzyl alcohol	ND	100	ug/L	20
bis(2-Chloroethoxy) methane	ND	100	ug/L	20
bis(2-Chloroethyl)-ether	ND	100	ug/L	6.3
bis(2-Ethylhexyl) phthalate	**41 J**	**100**	**ug/L**	**14**
4-Bromophenyl phenyl ether	ND	100	ug/L	9.9
Butyl benzyl phthalate	ND	100	ug/L	14
Carbazole	ND	100	ug/L	7.9
4-Chloroaniline	ND	100	ug/L	9.5
4-Chloro-3-methylphenol	ND	100	ug/L	50
2-Chloronaphthalene	ND	100	ug/L	7.6
2-Chlorophenol	ND	100	ug/L	6.7
4-Chlorophenyl phenyl ether	ND	100	ug/L	8.9
Chrysene	ND	100	ug/L	8.9
Dibenz(a,h)anthracene	ND	100	ug/L	20
Dibenzofuran	ND	100	ug/L	5.8
Di-n-butyl phthalate	ND	100	ug/L	14
1,2-Dichlorobenzene	ND	100	ug/L	5.8
1,3-Dichlorobenzene	ND	100	ug/L	6.9
1,4-Dichlorobenzene	ND	100	ug/L	7.4
3,3'-Dichlorobenzidine	ND	500	ug/L	20
2,4-Dichlorophenol	ND	100	ug/L	20
Diethyl phthalate	ND	100	ug/L	11

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STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	100	ug/L	11
Dimethyl phthalate	ND	100	ug/L	7.7
1,3-Dinitrobenzene	ND	100	ug/L	96
4,6-Dinitro-2-methylphenol	ND	500	ug/L	50
2,4-Dinitrophenol	ND	500	ug/L	130
2,4-Dinitrotoluene	ND	100	ug/L	20
2,6-Dinitrotoluene	ND	100	ug/L	20
Di-n-octyl phthalate	ND	100	ug/L	20
Diphenylamine	ND	100	ug/L	33
1,2-Diphenylhydrazine	ND	100	ug/L	8.9
Fluoranthene	ND	100	ug/L	10
Fluorene	ND	100	ug/L	6.8
Hexachlorobenzene	ND	100	ug/L	7.6
Hexachlorobutadiene	ND	100	ug/L	8.2
Hexachlorocyclopentadiene	ND	500	ug/L	50
Hexachloroethane	ND	100	ug/L	6.6
Indeno(1,2,3-cd)pyrene	ND	100	ug/L	8.7
Isophorone	ND	100	ug/L	50
2-Methylnaphthalene	ND	100	ug/L	7.2
2-Methylphenol	ND	100	ug/L	9.4
3-Methylphenol & 4-Methylphenol	ND	100	ug/L	15
Naphthalene	ND	100	ug/L	7.1
2-Nitroaniline	ND	500	ug/L	20
3-Nitroaniline	ND	500	ug/L	20
4-Nitroaniline	ND	500	ug/L	50
Nitrobenzene	ND	100	ug/L	20
2-Nitrophenol	ND	100	ug/L	50
4-Nitrophenol	ND	500	ug/L	130
N-Nitrosodimethylamine	ND	100	ug/L	7.0
N-Nitrosodiphenylamine	ND	100	ug/L	8.7
N-Nitrosodi-n-propylamine	ND	100	ug/L	50
Pentachlorophenol	ND	500	ug/L	50
Phenanthrene	ND	100	ug/L	7.0
Phenol	ND	100	ug/L	7.6
2,2'-oxybis(1-Chloropropane)	ND	100	ug/L	5.2
Pyrene	ND	100	ug/L	9.0
Pyridine	ND	200	ug/L	9.7
1,2,4-Trichlorobenzene	ND	100	ug/L	7.4

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STL Knoxville - ACS

Client Sample ID: G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-004 **Work Order #...:** H2H381AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	100	ug/L	50
2,4,6-Trichloro-phenol	ND	100	ug/L	50
Pentachloronitrobenzene	ND	500	ug/L	16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(36 - 98)
Phenol-d5	59	(49 - 109)
Nitrobenzene-d5	68	(57 - 120)
2-Fluorobiphenyl	79	(56 - 118)
2,4,6-Tribromophenol	35 *	(55 - 134)
Terphenyl-d14	92	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2902-R1-CAUSTIC FEED

GC/MS Semivolatiles

Lot-Sample #: H6D030246-004 **Work Order #:** H2H381AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		62 NJ	M	6.5149	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-005 **Work Order #...:** H2H391AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(36 - 98)
Phenol-d5	53	(49 - 109)
Nitrobenzene-d5	59	(57 - 120)
2-Fluorobiphenyl	72	(56 - 118)
2,4,6-Tribromophenol	67	(55 - 134)
Terphenyl-d14	83	(33 - 142)

STL Knoxville - ACS

G-2906-R1-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-005 **Work Order #:** H2H391AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		13 NJ	M	3.0778	ug/L
Methane, tribromo-	75-25-2	7.7 NJ	M	3.1306	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 **Work Order #...:** H2H4A1AA **Matrix.....:** SOLID
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**560 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1200 J**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**240 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	ND	1600	ug/kg	320
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**23000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**1700**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

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STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 Work Order #...: H2H4A1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	** 1600	ug/kg	** 340
Dimethyl phthalate	ND	** 1600	ug/kg	** 120
1,3-Dinitrobenzene	ND	** 1600	ug/kg	95
4,6-Dinitro-2-methylphenol	ND	** 8000	ug/kg	** 850
2,4-Dinitrophenol	ND	** 8000	ug/kg	** 800
2,4-Dinitrotoluene	ND	** 1600	ug/kg	** 340
2,6-Dinitrotoluene	ND	** 1600	ug/kg	** 340
Di-n-octyl phthalate	ND	** 1600	ug/kg	** 150
Diphenylamine	ND	** 1600	ug/kg	** 150
1,2-Diphenylhydrazine	ND	** 1600	ug/kg	** 120
Fluoranthene	**160 J**	**** 1600**	**ug/kg**	**** 130**
Fluorene	**710 J**	**** 1600**	**ug/kg**	**** 85**
Hexachlorobenzene	ND	** 1600	ug/kg	** 90
Hexachlorobutadiene	ND	** 1600	ug/kg	** 85
Hexachlorocyclopentadiene	ND	** 8000	ug/kg	** 850
Hexachloroethane	ND	** 1600	ug/kg	** 110
Indeno(1,2,3-cd)pyrene	ND	** 1600	ug/kg	** 90
Isophorone	ND	** 1600	ug/kg	** 340
2-Methylnaphthalene	**7600**	**** 1600**	**ug/kg**	**** 85**
2-Methylphenol	ND	** 1600	ug/kg	** 100
3-Methylphenol & 4-Methylphenol	**310 J**	**** 1600**	**ug/kg**	**** 220**
Naphthalene	**5900**	**** 1600**	**ug/kg**	**** 85**
2-Nitroaniline	ND	** 8000	ug/kg	** 160
3-Nitroaniline	ND	** 8000	ug/kg	** 95
4-Nitroaniline	ND	** 8000	ug/kg	** 340
Nitrobenzene	ND	** 1600	ug/kg	** 340
2-Nitrophenol	ND	** 1600	ug/kg	** 340
4-Nitrophenol	ND	** 8000	ug/kg	** 850
N-Nitrosodimethylamine	ND	** 1600	ug/kg	** 85
N-Nitrosodiphenylamine	ND	** 1600	ug/kg	** 120
N-Nitrosodi-n-propylamine	ND	** 1600	ug/kg	** 340
Pentachlorophenol	ND	** 8000	ug/kg	** 850
Phenanthrene	**1000 J**	**** 1600**	**ug/kg**	**** 95**
Phenol	**710 J**	**** 1600**	**ug/kg**	**** 85**
2,2'-oxybis(1-Chloropropane)	ND	** 1600	ug/kg	** 85
Pyrene	**250 J**	**** 1600**	**ug/kg**	**** 140**
Pyridine	ND	** 3300	ug/kg	** 85
1,2,4-Trichlorobenzene	**2000**	**** 1600**	**ug/kg**	**** 85**

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STL Knoxville - ACS

Client Sample ID: G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-006 **Work Order #...:** H2H4A1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	32 *	(44 - 93)
Phenol-d5	44 *	(47 - 98)
Nitrobenzene-d5	41 *	(45 - 100)
2-Fluorobiphenyl	41 *	(49 - 100)
2,4,6-Tribromophenol	7.1 *	(42 - 124)
Terphenyl-d14	9.5 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2988-R2-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-006 **Work Order #:** H2H4A1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	19000 NJ	Q	2.2315	ug/kg
Tetrachloroethylene	127-18-4	17000 NJ	Q	2.537	ug/kg
Ethylbenzene	100-41-4	6200 NJ	Q	2.9365	ug/kg
p-Xylene	106-42-3	20000 NJ	Q	3.0012	ug/kg
o-Xylene	95-47-6	7700 NJ	Q	3.1951	ug/kg
Unknown		2200 NJ	Q	3.2597	ug/kg
Benzene, (1-methylethyl)-	98-82-8	6600 NJ	Q	3.4477	ug/kg
Unknown		3900 NJ	Q	3.718	ug/kg
Benzene, 1-ethyl-2-methyl-	611-14-3	3900 NJ	Q	3.7474	ug/kg
Benzene, 1,2,4-trimethyl-	95-63-6	6300 NJ	Q	4.0176	ug/kg
Unknown		3200 NJ	Q	4.2644	ug/kg
Limonene	138-86-3	24000 NJ	Q	4.3055	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	2600 NJ	Q	4.4818	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	2500 NJ	Q	4.5464	ug/kg
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	2600 NJ	Q	4.7403	ug/kg
Undecane	1120-21-4	2800 NJ	Q	4.8814	ug/kg
Unknown		1700 NJ	Q	5.0694	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1600 NJ	Q	5.0987	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	3100 NJ	Q	5.1399	ug/kg
Unknown		1600 NJ	Q	5.4395	ug/kg
Dodecane	112-40-3	1300 NJ	Q	5.8097	ug/kg
Tridecane	629-50-5	1500 NJ	Q	6.7028	ug/kg
Naphthalene, 2-methyl-	91-57-6	2800 NJ	Q	6.9437	ug/kg
Tetradecane	629-59-4	3100 NJ	Q	7.684	ug/kg
Unknown		1500 NJ	Q	8.1776	ug/kg
cis-1,2,3,6-Tetrahydrophthalim	27813-21-4	3100 NJ	Q	8.3714	ug/kg
Benzene, 1-methyl-4-(phenylmet	620-83-7	1900 NJ	Q	8.677	ug/kg
3,6,9,12,15-Pentaoxanonadecan-	1786-94-3	1300 NJ	Q	9.6876	ug/kg
Unknown		4500 NJ	Q	11.655	ug/kg
1,4-dioxane	123-91-1	1700	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-007 **Work Order #...:** H2H4C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	43	(36 - 98)
Phenol-d5	51	(49 - 109)
Nitrobenzene-d5	57	(57 - 120)
2-Fluorobiphenyl	68	(56 - 118)
2,4,6-Tribromophenol	65	(55 - 134)
Terphenyl-d14	63	(33 - 142)

STL Knoxville - ACS

G-2992-R2-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-007 **Work Order #:** H2H4C1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Chloroiodomethane	593-71-5	4.3 NJ	M	1.9497	ug/L
Unknown		27 NJ	M	3.9004	ug/L
Unknown		43 NJ	M	4.1119	ug/L
Unknown		19 NJ	M	5.6043	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-008 **Work Order #...:** H2H4D1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(36 - 98)
Phenol-d5	54	(49 - 109)
Nitrobenzene-d5	61	(57 - 120)
2-Fluorobiphenyl	70	(56 - 118)
2,4,6-Tribromophenol	67	(55 - 134)
Terphenyl-d14	87	(33 - 142)

STL Knoxville - ACS

G-2996-R2-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-008 **Work Order #:** H2H4D1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		62 NJ	M	3.9003	ug/L
Unknown		5.7 NJ	M	5.6042	ug/L
Unknown		6.3 NJ	M	6.9145	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	10 NJ	M	10.269	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-009 **Work Order #...:** H2H4E1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	3.0 *	(36 - 98)
Phenol-d5	0.41 *	(49 - 109)
Nitrobenzene-d5	55 *	(57 - 120)
2-Fluorobiphenyl	65	(56 - 118)
2,4,6-Tribromophenol	57	(55 - 134)
Terphenyl-d14	85	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3004-R2-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-009 **Work Order #:** H2H4E1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		40 NJ	M	2.4724	ug/L
Unknown		29 NJ	M	3.0776	ug/L
Methane, tribromo-	75-25-2	6.5 NJ	M	3.1305	ug/L
Unknown		19 NJ	M	5.2986	ug/L
Unknown		4.7 NJ	M	6.3444	ug/L
Unknown		23 NJ	M	6.4149	ug/L
Unknown		4.8 NJ	M	6.6734	ug/L
Unknown		11 NJ	M	7.2493	ug/L
Unknown		4.5 NJ	M	7.5724	ug/L
(3,5-Dichlorophenyl)diethylami	100030-66-3	34 NJ	M	8.16	ug/L
Unknown		25 NJ	M	8.677	ug/L
Unknown		12 NJ	M	8.7828	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094075
Dilution Factor: 5
% Moisture.....: **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**780 J**	**1600**	**ug/kg**	**85**
Acenaphthylene	**1600**	**1600**	**ug/kg**	**100**
Aniline	ND	1600	ug/kg	160
Anthracene	**240 J**	**1600**	**ug/kg**	**110**
Benz(a)anthracene	ND	1600	ug/kg	100
Benzidine	ND	16000	ug/kg	4200
Benzo(b)fluoranthene	ND	1600	ug/kg	260
Benzo(k)fluoranthene	ND	1600	ug/kg	120
Benzoic acid	ND	8000	ug/kg	850
Benzo(ghi)perylene	ND	1600	ug/kg	100
Benzo(a)pyrene	ND	1600	ug/kg	200
Benzyl alcohol	ND	1600	ug/kg	340
bis(2-Chloroethoxy) methane	ND	1600	ug/kg	340
bis(2-Chloroethyl)-ether	ND	1600	ug/kg	95
bis(2-Ethylhexyl) phthalate	**410 J**	**1600**	**ug/kg**	**320**
4-Bromophenyl phenyl ether	ND	1600	ug/kg	340
Butyl benzyl phthalate	ND	1600	ug/kg	140
Carbazole	ND	1600	ug/kg	140
4-Chloroaniline	ND	1600	ug/kg	340
4-Chloro-3-methylphenol	ND	1600	ug/kg	340
2-Chloronaphthalene	ND	1600	ug/kg	95
2-Chlorophenol	ND	1600	ug/kg	120
4-Chlorophenyl phenyl ether	ND	1600	ug/kg	130
Chrysene	ND	1600	ug/kg	100
Dibenz(a,h)anthracene	ND	1600	ug/kg	340
Dibenzofuran	ND	1600	ug/kg	110
Di-n-butyl phthalate	ND	1600	ug/kg	160
1,2-Dichlorobenzene	**27000**	**1600**	**ug/kg**	**100**
1,3-Dichlorobenzene	ND	1600	ug/kg	85
1,4-Dichlorobenzene	**2100**	**1600**	**ug/kg**	**85**
3,3'-Dichlorobenzidine	ND	8000	ug/kg	340
2,4-Dichlorophenol	ND	1600	ug/kg	95
Diethyl phthalate	ND	1600	ug/kg	85

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STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	** 1600	ug/kg	** 340
Dimethyl phthalate	ND	** 1600	ug/kg	** 120
1,3-Dinitrobenzene	ND	** 1600	ug/kg	**95**
4,6-Dinitro-2-methylphenol	ND	** 8000	ug/kg	** 850
2,4-Dinitrophenol	ND	** 8000	ug/kg	** 800
2,4-Dinitrotoluene	ND	** 1600	ug/kg	** 340
2,6-Dinitrotoluene	ND	** 1600	ug/kg	** 340
Di-n-octyl phthalate	ND	** 1600	ug/kg	** 150
Diphenylamine	ND	** 1600	ug/kg	** 150
1,2-Diphenylhydrazine	ND	** 1600	ug/kg	** 120
Fluoranthene	**130 J**	**** 1600**	**ug/kg**	**** 130**
Fluorene	**1000 J**	**** 1600**	**ug/kg**	**** 85**
Hexachlorobenzene	ND	** 1600	ug/kg	** 90
Hexachlorobutadiene	ND	** 1600	ug/kg	** 85
Hexachlorocyclopentadiene	ND	** 8000	ug/kg	** 850
Hexachloroethane	ND	** 1600	ug/kg	** 110
Indeno(1,2,3-cd)pyrene	ND	** 1600	ug/kg	** 90
Isophorone	ND	** 1600	ug/kg	** 340
2-Methylnaphthalene	**11000**	**** 1600**	**ug/kg**	**** 85**
2-Methylphenol	ND	** 1600	ug/kg	** 100
3-Methylphenol & 4-Methylphenol	ND	** 1600	ug/kg	** 220
Naphthalene	**8700**	**** 1600**	**ug/kg**	**** 85**
2-Nitroaniline	ND	** 8000	ug/kg	** 160
3-Nitroaniline	ND	** 8000	ug/kg	** 95
4-Nitroaniline	ND	** 8000	ug/kg	** 340
Nitrobenzene	ND	** 1600	ug/kg	** 340
2-Nitrophenol	ND	** 1600	ug/kg	** 340
4-Nitrophenol	ND	** 8000	ug/kg	** 850
N-Nitrosodimethylamine	ND	** 1600	ug/kg	** 85
N-Nitrosodiphenylamine	ND	** 1600	ug/kg	** 120
N-Nitrosodi-n-propylamine	ND	** 1600	ug/kg	** 340
Pentachlorophenol	ND	** 8000	ug/kg	** 850
Phenanthrene	**1100 J**	**** 1600**	**ug/kg**	**** 95**
Phenol	**450 J**	**** 1600**	**ug/kg**	**** 85**
2,2'-oxybis(1-Chloropropane)	ND	** 1600	ug/kg	** 85
Pyrene	**220 J**	**** 1600**	**ug/kg**	**** 140**
Pyridine	ND	** 3300	ug/kg	** 85
1,2,4-Trichlorobenzene	**3000**	**** 1600**	**ug/kg**	**** 85**

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STL Knoxville - ACS

Client Sample ID: G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-010 **Work Order #...:** H2H4F1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	1600	ug/kg	340
2,4,6-Trichloro-phenol	ND	1600	ug/kg	340

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	32 *	(44 - 93)
Phenol-d5	46 *	(47 - 98)
Nitrobenzene-d5	47	(45 - 100)
2-Fluorobiphenyl	46 *	(49 - 100)
2,4,6-Tribromophenol	4.7 *	(42 - 124)
Terphenyl-d14	6.1 *	(54 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3071-R3-SPENT ACTIVATED CARBON

GC/MS Semivolatiles

Lot-Sample #: H6D030246-010 **Work Order #:** H2H4F1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	13000 NJ	M	2.2317	ug/kg
Tetrachloroethylene	127-18-4	12000 NJ	M	2.5372	ug/kg
Ethylbenzene	100-41-4	4400 NJ	M	2.9367	ug/kg
p-Xylene	106-42-3	14000 NJ	M	2.9955	ug/kg
Styrene	100-42-5	9700 NJ	M	3.1718	ug/kg
Ethylbenzene	100-41-4	6100 NJ	M	3.1953	ug/kg
Benzene, (1-methylethyl)-	98-82-8	5400 NJ	M	3.4479	ug/kg
Benzene, 1-ethyl-2-methyl-	611-14-3	3900 NJ	M	3.7476	ug/kg
Decane	124-18-5	7100 NJ	M	4.0237	ug/kg
Unknown		3000 NJ	M	4.2646	ug/kg
Unknown		21000 NJ	M	4.3058	ug/kg
Benzene, 1-methyl-3-propyl-	1074-43-7	2600 NJ	M	4.482	ug/kg
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	2500 NJ	M	4.5466	ug/kg
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	2800 NJ	M	4.7405	ug/kg
Undecane	1120-21-4	3000 NJ	M	4.8816	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	1500 NJ	M	5.099	ug/kg
Benzene, 1,2,4,5-tetramethyl-	95-93-2	2800 NJ	M	5.1401	ug/kg
Unknown		1400 NJ	M	5.4456	ug/kg
Dodecane	112-40-3	1400 NJ	M	5.8099	ug/kg
Tridecane	629-50-5	1700 NJ	M	6.703	ug/kg
Naphthalene, 1-methyl-	90-12-0	2700 NJ	M	6.9439	ug/kg
Biphenyl	92-52-4	1600 NJ	M	7.602	ug/kg
Tetradecane	629-59-4	3300 NJ	M	7.6842	ug/kg
Naphthalene, 2,3-dimethyl-	581-40-8	1500 NJ	M	7.9662	ug/kg
Bacchotricuneatin c	66563-30-2	1600 NJ	M	8.1778	ug/kg
1H-Isoindole-1,3(2H)-dione, 3a	1469-48-3	1300 NJ	M	8.3658	ug/kg
Benzene, 1-methyl-4-(phenylmet	620-83-7	1400 NJ	M	8.6772	ug/kg
Benzene, 1-methyl-2-[(3-methyl	21895-13-6	1700 NJ	M	9.2471	ug/kg
Unknown		7000 NJ	M	11.656	ug/kg
1,4-dioxane	123-91-1	650 NJ	Q	1.85	ug/kg
acetophenone	98-86-2	ND	Q		ug/kg
benzaldehyde	100-52-7	ND	M		ug/kg
benzonitrile	100-47-0	ND	M		ug/kg
pentachlorobenzene	608-93-5	ND	Q		ug/kg
pentachloronitrobenzene	82-68-8	ND	Q		ug/kg
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/kg

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

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STL Knoxville - ACS

Client Sample ID: G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-011 **Work Order #...:** H2H4G1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(36 - 98)
Phenol-d5	44 *	(49 - 109)
Nitrobenzene-d5	53 *	(57 - 120)
2-Fluorobiphenyl	64	(56 - 118)
2,4,6-Tribromophenol	55	(55 - 134)
Terphenyl-d14	46	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3075-R3-SCRUBBER BLOWDOWN

GC/MS Semivolatiles

Lot-Sample #: H6D030246-011 **Work Order #:** H2H4G1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Chloroiodomethane	593-71-5	5.7 NJ	M	1.9496	ug/L
Unknown		110 NJ	M	3.9003	ug/L
Unknown		97 NJ	M	4.1118	ug/L
Unknown		44 NJ	M	5.6042	ug/L
Unknown		4.5 NJ	M	10.845	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

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STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-012 **Work Order #...:** H2H4H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	42	(36 - 98)
Phenol-d5	51	(49 - 109)
Nitrobenzene-d5	62	(57 - 120)
2-Fluorobiphenyl	74	(56 - 118)
2,4,6-Tribromophenol	57	(55 - 134)
Terphenyl-d14	88	(33 - 142)

STL Knoxville - ACS

G-3079-R3-POTW DISCHARGE

GC/MS Semivolatiles

Lot-Sample #: H6D030246-012 **Work Order #:** H2H4H1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		140 NJ	M	3.9002	ug/L
Unknown		56 NJ	M	4.1118	ug/L
Unknown		22 NJ	M	5.6042	ug/L
N,N-Diethyl-p-nitroaniline	2216-15-1	4.8 NJ	M	10.269	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/18/06
Prep Batch #...: 6094076
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.50
Acenaphthylene	ND	10	ug/L	0.58
Acetophenone	ND	10	ug/L	0.73
Aniline	ND	10	ug/L	0.87
Anthracene	ND	10	ug/L	0.82
Benz(a)anthracene	ND	10	ug/L	0.93
Benzidine	ND	100	ug/L	25
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.3
Benzoic acid	ND	50	ug/L	9.0
Benzo(ghi)perylene	ND	10	ug/L	0.70
Benzo(a)pyrene	ND	10	ug/L	1.7
Benzyl alcohol	ND	10	ug/L	2.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.63
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.4
4-Bromophenyl phenyl ether	ND	10	ug/L	0.99
Butyl benzyl phthalate	ND	10	ug/L	1.4
Carbazole	ND	10	ug/L	0.79
4-Chloroaniline	ND	10	ug/L	0.95
4-Chloro-3-methylphenol	ND	10	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	0.76
2-Chlorophenol	ND	10	ug/L	0.67
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.89
Chrysene	ND	10	ug/L	0.89
Dibenz(a,h)anthracene	ND	10	ug/L	2.0
Dibenzofuran	ND	10	ug/L	0.58
Di-n-butyl phthalate	ND	10	ug/L	1.4
1,2-Dichlorobenzene	ND	10	ug/L	0.58
1,3-Dichlorobenzene	ND	10	ug/L	0.69
1,4-Dichlorobenzene	ND	10	ug/L	0.74
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	1.1

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.1
Dimethyl phthalate	ND	10	ug/L	0.77
1,3-Dinitrobenzene	ND	10	ug/L	9.6
4,6-Dinitro-2-methylphenol	ND	50	ug/L	5.0
2,4-Dinitrophenol	ND	50	ug/L	13
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	2.0
Diphenylamine	ND	10	ug/L	3.3
1,2-Diphenylhydrazine	ND	10	ug/L	0.89
Fluoranthene	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	0.68
Hexachlorobenzene	ND	10	ug/L	0.76
Hexachlorobutadiene	ND	10	ug/L	0.82
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.66
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.87
Isophorone	ND	10	ug/L	5.0
2-Methylnaphthalene	ND	10	ug/L	0.72
2-Methylphenol	ND	10	ug/L	0.94
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	0.71
2-Nitroaniline	ND	50	ug/L	2.0
3-Nitroaniline	ND	50	ug/L	2.0
4-Nitroaniline	ND	50	ug/L	5.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	13
N-Nitrosodimethylamine	ND	10	ug/L	0.70
N-Nitrosodiphenylamine	ND	10	ug/L	0.87
N-Nitrosodi-n-propylamine	ND	10	ug/L	5.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.76
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.52
Pyrene	ND	10	ug/L	0.90
Pyridine	ND	20	ug/L	0.97
1,2,4-Trichlorobenzene	ND	10	ug/L	0.74

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #...: H6D030246-013 **Work Order #...:** H2H4J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-Trichloro-phenol	ND	10	ug/L	5.0
2,4,6-Trichloro-phenol	ND	10	ug/L	5.0
Pentachloronitrobenzene	ND	50	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	0.87 *	(36 - 98)
Phenol-d5	0.0	(49 - 109)
Nitrobenzene-d5	54 *	(57 - 120)
2-Fluorobiphenyl	66	(56 - 118)
2,4,6-Tribromophenol	43 *	(55 - 134)
Terphenyl-d14	86	(33 - 142)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3087-R3-MAKE-UP WATER

GC/MS Semivolatiles

Lot-Sample #: H6D030246-013 **Work Order #:** H2H4J1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.2 NJ	M	2.2786	ug/L
Unknown		76 NJ	M	2.4725	ug/L
Unknown		30 NJ	M	3.0777	ug/L
Methane, tribromo-	75-25-2	6.1 NJ	M	3.1306	ug/L
Unknown		18 NJ	M	5.2986	ug/L
Unknown		4.5 NJ	M	6.3445	ug/L
Unknown		20 NJ	M	6.415	ug/L
Unknown		8.8 NJ	M	7.2493	ug/L
Unknown		5.7 NJ	M	7.5725	ug/L
(3,5-Dichlorophenyl)diethylami	100030-66-3	36 NJ	M	8.1601	ug/L
Unknown		28 NJ	M	8.6771	ug/L
Unknown		18 NJ	M	8.7829	ug/L
1,4-dioxane	123-91-1	ND	Q		ug/L
benzaldehyde	100-52-7	ND	M		ug/L
benzonitrile	100-47-0	ND	M		ug/L
pentachlorobenzene	608-93-5	ND	Q		ug/L
1,2,4,5-tetrachlorobenzene	95-94-3	ND	Q		ug/L

NOTE(S):

Q: Result was quantitated against the response factor of a calibration standard.

M: Result was measured against nearest internal standard assuming a response factor of 1.

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates ULT

Lot #: H6D040101

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

May 4, 2006

PROJECT NARRATIVE
H6D040101

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Subcontract

The following analyses were performed by Galbraith Laboratory, Inc. 2323 Sycamore Dr. Knoxville, TN 37921: Carbon, Hydrogen, Nitrogen, Oxygen, Sulfur.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met, and the test results shown in this report meet all applicable NELAC requirements.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

GALBRAITH LABORATORIES, INC.

LABORATORY REPORT

Kevin S Woodcock
Severn Trent Labs
5815 Middlebrook Pike
Knoxville TN 37921

AMENDED REPORT
Date Amended: 06/21/06
Purchase Order #: H6D040101
Original Report Date: 04/20/06
Fax Number: 865-584-4315

SAMPLE ID	LAB ID	ANALYSIS	RESULTS		DUPLICATE(S)	
G-2887-R1-Spent Activated Carbon STL Lot No: H6D040101-001	Y-8435	Carbon	61.29	%	64.63	%
		Hydrogen	4.10	%	3.74	%
		Nitrogen	<0.5	%	<0.5	%
		Oxygen	*		*	
		Sulfur	<0.2	%	<0.2	%
G-2985-R2-Spent Activated Carbon STL Lot No: H6D040101-002	Y-8436	Carbon	67.57	%	63.58	%
		Hydrogen	2.92	%	3.71	%
		Nitrogen	<0.5	%	<0.5	%
		Oxygen	*		*	
		Sulfur	<0.2	%	<0.2	%
G-3068-R3-Spent Activated Carbon STL Lot No: H6D040101-003	Y-8437	Carbon	60.22	%	49.02	%
		Hydrogen	3.90	%	4.52	%
		Nitrogen	<0.5	%	<0.5	%
		Oxygen	*		*	
		Sulfur	<0.2	%	0.25	%

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Toll Free: 1.877.449.8797
www.galbraith.com
Shipping: 2323 Sycamore Dr. | Knoxville, TN 37921-1700
Fax: 865.546.7209

LABORATORY REPORT

Kevin S Woodcock
Severn Trent Labs

Report Date: 06/21/06
Lab ID #: Y-8435-8437

TECHNICAL INFORMATION

The precision demonstrated by the carbon, hydrogen, oxygen and sulfur results for these samples is significantly less than the precision that is typically seen for these samples.

* We regret that we are unable to determine the oxygen due to a matrix interference.

Sulfur standard is whole egg powder, C/N 10991:

Weight	% Sulfur found
29.92 mg	0.4775 %
40.00 mg	0.4781 %
69.82 mg	0.4819 %
100.20 mg	0.4873 %
134.87mg	0.4949 %
164.94 mg	0.5016 %
174.99 mg	0.5064 %

Theory = 0.512 % ± 0.050 %

CHN standard is 2:4 D, C/N 11201:

The weights used to calibrate with are 1.689 mg and 1.806 mg. The instrument automatically calculates factors based on the readings for the calibration standards.

	Theory
Carbon	51.79 %
Hydrogen	5.07 %
Nitrogen	20.14 %

Authorized Release of Data

Shannon G. Augé, Technical Administrator

Quality Assurance Inspector

SGA:yb

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 9056

Lot #: H6D040102

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 25, 2006

ANALYTICAL METHODS SUMMARY

H6D040102

PARAMETER	ANALYTICAL METHOD
Total Chlorine	KNOX WC-0016

References:

KNOX Severn Trent Laboratories Knoxville, Facility Standard Operating Procedure.

SAMPLE SUMMARY

H6D040102

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H65	001	G-2886-R1-SPENT ACTIVATED CARBON	03/28/06	
H2H66	002	G-2984-R2-SPENT ACTIVATED CARBON	03/29/06	
H2H67	003	G-3067-R3-SPENT ACTIVATED CARBON	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D040102

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

The samples were prepared for total chlorine using SOP number KNOX-WC-0016 (based on ASTM Method E442 and SW-846 Method 5050). The sample is oxidized by combustion in an oxygen flask at atmospheric pressure or a bomb containing oxygen under pressure. The liberated halogen compounds are absorbed primarily as halides in a sodium carbonate/sodium bicarbonate buffer solution. The combustion products are collected by repeated rinsing of the combustion apparatus, and analyzed by ion chromatography in accordance with SOP KNOX-WC-0005 (based on SW-846 Method 9056). The results are calculated using the following equation:

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PROJECT NARRATIVE
H6D040102

$$C = \frac{C_{com} \times V_{com}}{W} \times 1000$$

Where:

C	=	concentration of analyte in the sample, mg/kg.
C_{com}	=	concentration of analyte in the combustate, mg/L.
V_{com}	=	total volume of combustate, L.
W	=	weight of sample combusted, g.

The matrix spike recovery for sample G-2886-R1-Spent Activated Carbon was outside control limits for total chlorine. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike result is attributed to matrix effects, specifically sample heterogeneity. The percent recovery calculation is influenced by the native amount of chlorine present in the samples. Since the samples are solids, sample heterogeneity is expected. For instance, if a matrix spike analysis uses an aliquot of the sample that has a higher chlorine content than the original analysis to which it is compared, then the calculated recovery will be elevated.

The duplicate RPD result for sample G-2886-R1-Spent Activated Carbon is outside control limits. The laboratory control sample showed acceptable results indicating that the analysis was in control. The duplicate result is attributed to sample heterogeneity. Sample heterogeneity effects are noted for the matrix spike as well as the duplicate analysis.

The samples for the three runs associated with this project were compared for consistency. A wide range of results was noted, consistent with sample heterogeneity that is common for solid matrices.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2886-R1-SPENT ACTIVATED CARBON

General Chemistry

Lot-Sample #...: H6D040102-001 **Work Order #...:** H2H65 **Matrix.....:** SOLID
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Chlorine	**3860 J**	**900**	**mg/kg**	**KNOX WC-0016**	**04/17-04/19/06**	**6107072**

Dilution Factor: 4.5 MDL.....: 279

NOTE(S):

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2984-R2-SPENT ACTIVATED CARBON

General Chemistry

Lot-Sample #...: H6D040102-002 **Work Order #...:** H2H66 **Matrix.....:** SOLID
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Chlorine	**4740 J**	**900**	**mg/kg**	**KNOX WC-0016**	**04/17-04/19/06**	**6107072**

Dilution Factor: 4.5 MDL.....: 279

NOTE(S):

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3067-R3-SPENT ACTIVATED CARBON

General Chemistry

Lot-Sample #...: H6D040102-003 **Work Order #...:** H2H67 **Matrix.....:** SOLID
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Chlorine	**3650 J**	**880**	**mg/kg**	**KNOX WC-0016**	**04/17-04/19/06**	**6107072**

Dilution Factor: 4.4 MDL.....: 273

NOTE(S):

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates MT/HG

Lot #: H6D040213

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 25, 2006

ANALYTICAL METHODS SUMMARY

H6D040213

PARAMETER	ANALYTICAL METHOD
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D040213

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2J9K	001	G-2888-R1-SPENT ACTIVATED CARBON	03/28/06	
H2J9X	002	G-2892-R1-SCRUBBER BLOWDOWN	03/28/06	
H2KAV	003	G-2896-R1-POTW DISCHARGE	03/28/06	
H2KA5	004	G-2900-R1-CAUSTIC FEED	03/28/06	
H2KCE	005	G-2904-R1-MAKE-UP WATER	03/28/06	
H2KCL	006	G-2986-R2-SPENT ACTIVATED CARBON	03/29/06	
H2KCV	007	G-2990-R2-SCRUBBER BLOWDOWN	03/29/06	
H2KC4	008	G-2994-R2-POTW DISCHARGE	03/29/06	
H2KC5	009	G-3002-R2-MAKE-UP WATER	03/29/06	
H2KC9	010	G-3069-R3-SPENT ACTIVATED CARBON	03/30/06	
H2KDV	011	G-3073-R3-SCRUBBER BLOWDOWN	03/30/06	
H2KD1	012	G-3077-R3-POTW DISCHARGE	03/30/06	
H2KD5	013	G-3085-R3-MAKE-UP WATER	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D040213

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

The container label for several samples did not match the associated chain of custody documentation.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

The matrix spike/matrix spike duplicate recoveries and/or RPDs for sample G-2888-R1-Spent Activated Carbon, G-2892-R1-Scrubber Blowdown and G-2900-R1-Caustic Feed were outside control limits for some analytes. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects. In addition, some analytes were outside control limits because the native analyte concentration in the sample was at least four times greater than the spike level. The affected analytes are flagged appropriately on the matrix spike/matrix spike duplicate report.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H6D040213

Sample G-2900- R1-Caustic Feed was reported with elevated reporting limits for all analytes due to the difficult sample matrix. A dilution was necessary and the reporting limits were adjusted accordingly.

Interference check sample result for barium was outside control limits (± 1 times the reporting limit from zero) due to contamination. The validity of the associated sample results is not affected.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2888-R1-SPENT ACTIVATED CARBON

TOTAL Metals

Lot-Sample #...: H6D040213-001 Matrix.....: SOLID
Date Sampled...: 03/28/06 Date Received..: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6096160						
Aluminum	433	40.0	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1AA
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 11.0	
Antimony	ND	6.0	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1AE
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 1.4	
Arsenic	1.4 B	2.0	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1AH
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.33	
Barium	21.1	1.0	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1AL
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.16	
Beryllium	0.22 B	1.0	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1AP
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.18	
Cadmium	0.16 B	0.50	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1AT
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.082	
Chromium	3.7	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1AW
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.36	
Cobalt	1.6 B	5.0	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1A1
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.22	
Copper	11.1	2.5	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1A4
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.70	
Lead	0.75 B	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1A7
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.37	
Manganese	278	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1CA
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.18	
Nickel	9.5	4.0	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1CE
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.38	
Selenium	0.61 B	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1CH
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-2888-R1-SPENT ACTIVATED CARBON

TOTAL Metals

Lot-Sample #...: H6D040213-001 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	3.0	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1CL
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.97	
Thallium	ND	3.5	mg/kg	SW846 6010B	04/07-04/10/06	H2J9K1CP
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 1.0	
Vanadium	**2.7**	**2.5**	**mg/kg**	**SW846 6010B**	**04/07-04/10/06**	**H2J9K1CT**
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.50	
Zinc	**14.4 J**	**6.0**	**mg/kg**	**SW846 6010B**	**04/07-04/10/06**	**H2J9K1CW**
		Dilution Factor: 1		Analysis Time..: 18:52	MDL.....: 0.41	

Prep Batch #...: 6103381

Mercury	**0.013 B**	**0.033**	**mg/kg**	**SW846 7471A**	**04/14/06**	**H2J9K1C1**
		Dilution Factor: 1		Analysis Time..: 12:05	MDL.....: 0.010	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2892-R1-SCRUBBER BLOWDOWN

TOTAL Metals

Lot-Sample #...: H6D040213-002 Matrix.....: WATER
Date Sampled...: 03/28/06 Date Received..: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	0.35	0.20	ug/L	SW846 7470A	04/19/06	H2J9X1C1
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.060	
Prep Batch #...: 6104289						
Aluminum	13700	400	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1AA
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 110	
Antimony	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1AE
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 14.0	
Arsenic	36.7	20.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1AH
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 5.1	
Barium	874	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1AL
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 1.6	
Beryllium	3.8 B	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1AP
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 1.8	
Cadmium	11.3	5.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1AT
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 0.82	
Chromium	1720	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1AW
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 3.9	
Cobalt	31.5 B	50.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1A1
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 2.2	
Copper	1780	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1A4
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 7.0	
Lead	721	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1A7
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 3.7	
Manganese	3380	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1CA
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 1.8	
Nickel	433	40.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1CE
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 3.8	

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STL Knoxville - ACS

Client Sample ID: G-2892-R1-SCRUBBER BLOWDOWN

TOTAL Metals

Lot-Sample #...: H6D040213-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	**11.9 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2J9X1CH**
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 4.3	
Silver	ND	30.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1CL
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 9.7	
Thallium	ND	35.0	ug/L	SW846 6010B	04/17-04/18/06	H2J9X1CP
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 10.0	
Vanadium	**84.3**	**25.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2J9X1CT**
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 5.0	
Zinc	**765**	**60.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2J9X1CW**
		Dilution Factor: 1		Analysis Time..: 14:55	MDL.....: 3.8	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2896-R1-POTW DISCHARGE

TOTAL Metals

Lot-Sample #...: H6D040213-003 **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/06	H2KAV1CA
		Dilution Factor: 1		Analysis Time..: 17:04	MDL.....: 0.060	
Prep Batch #...: 6104289						
Aluminum	**114 B**	**400**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KAV1AL**
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 110	
Antimony	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1AP
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 14.0	
Arsenic	**13.7 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KAV1AT**
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 5.1	
Barium	**247**	**10.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KAV1AW**
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 1.6	
Beryllium	ND	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1A1
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 1.8	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1A4
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 0.82	
Chromium	**24.6**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KAV1A7**
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 3.9	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1AA
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 2.2	
Copper	ND	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1AE
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 7.0	
Lead	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1AH
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 3.7	
Manganese	**115**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KAV1CE**
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 1.8	
Nickel	ND	40.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1CH
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 3.8	

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STL Knoxville - ACS

Client Sample ID: G-2896-R1-POTW DISCHARGE

TOTAL Metals

Lot-Sample #...: H6D040213-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	**11.0 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KAV1CL**
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 4.3	
Silver	ND	30.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1CP
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 9.7	
Thallium	ND	35.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1CT
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 10.0	
Vanadium	**25.6**	**25.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KAV1CW**
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 5.0	
Zinc	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KAV1C1
		Dilution Factor: 1		Analysis Time..: 15:13	MDL.....: 3.8	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2900-R1-CAUSTIC FEED

TOTAL Metals

Lot-Sample #...: H6D040213-004 **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	**3.5**	**0.80**	**ug/L**	**SW846 7470A**	**04/19/06**	**H2KA51CA**
		Dilution Factor: 4		Analysis Time..: 17:05	MDL.....: 0.24	
Prep Batch #...: 6104289						
Aluminum	ND	1600	ug/L	SW846 6010B	04/17-04/18/06	H2KA51AL
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 440	
Antimony	ND	240	ug/L	SW846 6010B	04/17-04/18/06	H2KA51AP
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 56.0	
Arsenic	ND	80.0	ug/L	SW846 6010B	04/17-04/18/06	H2KA51AT
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 20.4	
Barium	**363**	**40.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KA51AW**
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 6.4	
Beryllium	ND	40.0	ug/L	SW846 6010B	04/17-04/18/06	H2KA51A1
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 7.2	
Cadmium	ND	20.0	ug/L	SW846 6010B	04/17-04/18/06	H2KA51A4
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 3.3	
Chromium	**364**	**60.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KA51A7**
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 15.6	
Cobalt	ND	200	ug/L	SW846 6010B	04/17-04/18/06	H2KA51AA
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 8.8	
Copper	ND	100	ug/L	SW846 6010B	04/17-04/18/06	H2KA51AE
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 28.0	
Lead	**97.5**	**60.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KA51AH**
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 14.8	
Manganese	**74.8**	**60.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KA51CE**
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 7.2	
Nickel	**150 B**	**160**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KA51CH**
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 15.2	

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STL Knoxville - ACS

Client Sample ID: G-2900-R1-CAUSTIC FEED

TOTAL Metals

Lot-Sample #...: H6D040213-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KA51CL
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 17.2	
Silver	**53.0 B**	**120**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KA51CP**
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 38.8	
Thallium	ND	140	ug/L	SW846 6010B	04/17-04/18/06	H2KA51CT
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 40.0	
Vanadium	ND	100	ug/L	SW846 6010B	04/17-04/18/06	H2KA51CW
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 20.0	
Zinc	**204 B**	**240**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KA51C1**
		Dilution Factor: 4		Analysis Time..: 22:06	MDL.....: 15.2	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2904-R1-MAKE-UP WATER

TOTAL Metals

Lot-Sample #...: H6D040213-005 **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/06	H2KCE1CA
		Dilution Factor: 1		Analysis Time..: 17:12	MDL.....: 0.060	
Prep Batch #...: 6104289						
Aluminum	ND	400	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1AL
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 110	
Antimony	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1AP
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 14.0	
Arsenic	ND	20.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1AT
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 5.1	
Barium	**51.2**	**10.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KCE1AW**
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 1.6	
Beryllium	ND	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1A1
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 1.8	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1A4
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 0.82	
Chromium	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1A7
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.9	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1AA
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 2.2	
Copper	ND	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1AE
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 7.0	
Lead	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1AH
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.7	
Manganese	**15.4**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KCE1CE**
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 1.8	
Nickel	ND	40.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1CH
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.8	

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STL Knoxville - ACS

Client Sample ID: G-2904-R1-MAKE-UP WATER

TOTAL Metals

Lot-Sample #...: H6D040213-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1CL
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 4.3	
Silver	ND	30.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1CP
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 9.7	
Thallium	ND	35.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1CT
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 10.0	
Vanadium	ND	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1CW
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 5.0	
Zinc	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCE1C1
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 3.8	

STL Knoxville - ACS

Client Sample ID: G-2986-R2-SPENT ACTIVATED CARBON

TOTAL Metals

Lot-Sample #...: H6D040213-006 Matrix.....: SOLID
Date Sampled...: 03/29/06 Date Received..: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6096160						
Aluminum	832	40.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AE
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 11.0	
Antimony	ND	6.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AF
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 1.4	
Arsenic	1.4 B	2.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AG
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.33	
Barium	35.0	1.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AH
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.16	
Beryllium	0.42 B	1.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AJ
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.18	
Cadmium	0.14 B	0.50	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AK
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.082	
Chromium	5.9	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AL
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.36	
Cobalt	1.8 B	5.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AA
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.22	
Copper	17.4	2.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AC
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.70	
Lead	0.88 B	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AD
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.37	
Manganese	270	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AN
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.18	
Nickel	50.8	4.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AP
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.38	
Selenium	0.55 B	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AQ
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-2986-R2-SPENT ACTIVATED CARBON

TOTAL Metals

Lot-Sample #...: H6D040213-006 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	3.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AR
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.97	
Thallium	ND	3.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KCL1AT
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 1.0	
Vanadium	**2.9**	**2.5**	**mg/kg**	**SW846 6010B**	**04/07-04/10/06**	**H2KCL1AU**
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.50	
Zinc	**16.8 J**	**6.0**	**mg/kg**	**SW846 6010B**	**04/07-04/10/06**	**H2KCL1AV**
		Dilution Factor: 1		Analysis Time..: 19:11	MDL.....: 0.41	
Prep Batch #...: 6103381						
Mercury	**0.014 B**	**0.033**	**mg/kg**	**SW846 7471A**	**04/14/06**	**H2KCL1AM**
		Dilution Factor: 1		Analysis Time..: 12:12	MDL.....: 0.010	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2990-R2-SCRUBBER BLOWDOWN

TOTAL Metals

Lot-Sample #...: H6D040213-007
Date Sampled...: 03/29/06 Date Received..: 04/02/06
Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	0.42	0.20	ug/L	SW846 7470A	04/19/06	H2KCV1AM
		Dilution Factor: 1		Analysis Time..: 17:14	MDL.....: 0.060	
Prep Batch #...: 6104289						
Aluminum	11700	400	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AE
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 110	
Antimony	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AF
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 14.0	
Arsenic	26.1	20.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AG
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 5.1	
Barium	765	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AH
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 1.6	
Beryllium	3.7 B	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AJ
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 1.8	
Cadmium	11.7	5.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AK
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 0.82	
Chromium	1750	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AL
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 3.9	
Cobalt	26.4 B	50.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AA
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 2.2	
Copper	965	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AC
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 7.0	
Lead	592	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AD
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 3.7	
Manganese	3100	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AN
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 1.8	
Nickel	397	40.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AP
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 3.8	

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STL Knoxville - ACS

Client Sample ID: G-2990-R2-SCRUBBER BLOWDOWN

TOTAL Metals

Lot-Sample #...: H6D040213-007 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	**8.8 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KCV1AQ**
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 4.3	
Silver	ND	30.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AR
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 9.7	
Thallium	ND	35.0	ug/L	SW846 6010B	04/17-04/18/06	H2KCV1AT
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 10.0	
Vanadium	**58.1**	**25.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KCV1AU**
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 5.0	
Zinc	**564**	**60.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KCV1AV**
		Dilution Factor: 1		Analysis Time..: 16:08	MDL.....: 3.8	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2994-R2-POTW DISCHARGE

TOTAL Metals

Lot-Sample #...: H6D040213-008
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/06	H2KC41AM
		Dilution Factor: 1		Analysis Time..: 17:16	MDL.....: 0.060	
Prep Batch #...: 6104289						
Aluminum	ND	400	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AE
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 110	
Antimony	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AF
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 14.0	
Arsenic	**12.6 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KC41AG**
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 5.1	
Barium	**226**	**10.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KC41AH**
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 1.6	
Beryllium	ND	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AJ
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 1.8	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AK
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 0.82	
Chromium	**13.0 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KC41AL**
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 3.9	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AA
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 2.2	
Copper	ND	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AC
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 7.0	
Lead	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AD
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 3.7	
Manganese	**61.2**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KC41AN**
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 1.8	
Nickel	ND	40.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AP
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 3.8	

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STL Knoxville - ACS

Client Sample ID: G-2994-R2-POTW DISCHARGE

TOTAL Metals

Lot-Sample #...: H6D040213-008 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	**10.0 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KC41AQ**
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 4.3	
Silver	ND	30.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AR
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 9.7	
Thallium	ND	35.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AT
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 10.0	
Vanadium	**16.6 B**	**25.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KC41AU**
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 5.0	
Zinc	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC41AV
		Dilution Factor: 1		Analysis Time..: 16:14	MDL.....: 3.8	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3002-R2-MAKE-UP WATER

TOTAL Metals

Lot-Sample #...: H6D040213-009 **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/06	H2KC51AM
		Dilution Factor: 1		Analysis Time..: 17:25	MDL.....: 0.060	
Prep Batch #...: 6104289						
Aluminum	ND	400	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AE
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 110	
Antimony	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AF
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 14.0	
Arsenic	**5.9 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KC51AG**
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 5.1	
Barium	**51.9**	**10.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KC51AH**
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 1.6	
Beryllium	ND	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AJ
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 1.8	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AK
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 0.82	
Chromium	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AL
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 3.9	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AA
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 2.2	
Copper	ND	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AC
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 7.0	
Lead	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AD
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 3.7	
Manganese	**18.5**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KC51AN**
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 1.8	
Nickel	ND	40.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AP
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 3.8	

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STL Knoxville - ACS

Client Sample ID: G-3002-R2-MAKE-UP WATER

TOTAL Metals

Lot-Sample #...: H6D040213-009 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AQ
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 4.3	
Silver	ND	30.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AR
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 9.7	
Thallium	ND	35.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AT
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 10.0	
Vanadium	ND	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AU
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 5.0	
Zinc	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KC51AV
		Dilution Factor: 1		Analysis Time..: 16:20	MDL.....: 3.8	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3069-R3-SPENT ACTIVATED CARBON

TOTAL Metals

Lot-Sample #...: H6D040213-010 Matrix.....: SOLID
Date Sampled...: 03/30/06 Date Received..: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6096160						
Aluminum	785	40.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AE
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 11.0	
Antimony	ND	6.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AF
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 1.4	
Arsenic	1.6 B	2.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AG
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.33	
Barium	37.3	1.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AH
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.16	
Beryllium	0.54 B	1.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AJ
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.18	
Cadmium	0.24 B	0.50	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AK
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.082	
Chromium	5.7	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AL
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.36	
Cobalt	2.0 B	5.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AA
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.22	
Copper	12.4	2.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AC
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.70	
Lead	1.1 B	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AD
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.37	
Manganese	179	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AN
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.18	
Nickel	28.9	4.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AP
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.38	
Selenium	0.48 B	1.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AQ
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-3069-R3-SPENT ACTIVATED CARBON

TOTAL Metals

Lot-Sample #...: H6D040213-010 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	3.0	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AR
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.97	
Thallium	ND	3.5	mg/kg	SW846 6010B	04/07-04/10/06	H2KC91AT
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 1.0	
Vanadium	**6.2**	**2.5**	**mg/kg**	**SW846 6010B**	**04/07-04/10/06**	**H2KC91AU**
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.50	
Zinc	**16.8 J**	**6.0**	**mg/kg**	**SW846 6010B**	**04/07-04/10/06**	**H2KC91AV**
		Dilution Factor: 1		Analysis Time..: 19:17	MDL.....: 0.41	

Prep Batch #...: 6103381

Mercury	**0.023 B**	**0.033**	**mg/kg**	**SW846 7471A**	**04/14/06**	**H2KC91AM**
		Dilution Factor: 1		Analysis Time..: 12:14	MDL.....: 0.010	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3073-R3-SCRUBBER BLOWDOWN

TOTAL Metals

Lot-Sample #...: H6D040213-011 Matrix.....: WATER
Date Sampled...: 03/30/06 Date Received..: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	0.45	0.20	ug/L	SW846 7470A	04/19/06	H2KDV1AM
		Dilution Factor: 1		Analysis Time..: 17:31	MDL.....: 0.060	
Prep Batch #...: 6104289						
Aluminum	17600	400	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AE
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 110	
Antimony	17.7 B	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AF
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 14.0	
Arsenic	39.3	20.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AG
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 5.1	
Barium	1130	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AH
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 1.6	
Beryllium	5.4 B	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AJ
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 1.8	
Cadmium	13.7	5.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AK
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 0.82	
Chromium	2900	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AL
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 3.9	
Cobalt	40.5 B	50.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AA
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 2.2	
Copper	669	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AC
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 7.0	
Lead	1510	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AD
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 3.7	
Manganese	4320	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AN
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 1.8	
Nickel	405	40.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AP
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 3.8	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3073-R3-SCRUBBER BLOWDOWN

TOTAL Metals

Lot-Sample #...: H6D040213-011 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	**12.1 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KDV1AQ**
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 4.3	
Silver	ND	30.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AR
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 9.7	
Thallium	ND	35.0	ug/L	SW846 6010B	04/17-04/18/06	H2KDV1AT
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 10.0	
Vanadium	**109**	**25.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KDV1AU**
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 5.0	
Zinc	**645**	**60.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KDV1AV**
		Dilution Factor: 1		Analysis Time..: 16:26	MDL.....: 3.8	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3077-R3-POTW DISCHARGE

TOTAL Metals

Lot-Sample #...: H6D040213-012 **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/06	H2KD11AM
		Dilution Factor: 1		Analysis Time..: 17:36	MDL.....: 0.060	
Prep Batch #...: 6104289						
Aluminum	**148 B**	**400**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD11AE**
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 110	
Antimony	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD11AF
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 14.0	
Arsenic	**11.9 B**	**20.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD11AG**
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 5.1	
Barium	**238**	**10.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD11AH**
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 1.6	
Beryllium	ND	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD11AJ
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 1.8	
Cadmium	**2.4 B**	**5.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD11AK**
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 0.82	
Chromium	**25.1**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD11AL**
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 3.9	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD11AA
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 2.2	
Copper	ND	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD11AC
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 7.0	
Lead	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD11AD
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 3.7	
Manganese	**85.9**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD11AN**
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 1.8	
Nickel	**4.8 B**	**40.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD11AP**
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 3.8	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3077-R3-POTW DISCHARGE

TOTAL Metals

Lot-Sample #...: H6D040213-012 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	**9.0 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD11AQ**
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 4.3	
Silver	ND	30.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD11AR
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 9.7	
Thallium	ND	35.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD11AT
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 10.0	
Vanadium	**21.0 B**	**25.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD11AU**
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 5.0	
Zinc	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD11AV
		Dilution Factor: 1		Analysis Time..: 16:35	MDL.....: 3.8	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3085-R3-MAKE-UP WATER

TOTAL Metals

Lot-Sample #...: H6D040213-013 **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6102412						
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/06	H2KD51AM
		Dilution Factor: 1		Analysis Time..: 17:38	MDL.....: 0.060	
Prep Batch #...: 6104289						
Aluminum	ND	400	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AE
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 110	
Antimony	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AF
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 14.0	
Arsenic	ND	20.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AG
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 5.1	
Barium	**49.2**	**10.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD51AH**
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 1.6	
Beryllium	ND	10.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AJ
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 1.8	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AK
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 0.82	
Chromium	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AL
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 3.9	
Cobalt	ND	50.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AA
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 2.2	
Copper	ND	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AC
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 7.0	
Lead	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AD
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 3.7	
Manganese	**14.0 B**	**15.0**	**ug/L**	**SW846 6010B**	**04/17-04/18/06**	**H2KD51AN**
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 1.8	
Nickel	ND	40.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AP
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 3.8	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3085-R3-MAKE-UP WATER

TOTAL Metals

Lot-Sample #...: H6D040213-013 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	15.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AQ
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 4.3	
Silver	ND	30.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AR
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 9.7	
Thallium	ND	35.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AT
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 10.0	
Vanadium	ND	25.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AU
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 5.0	
Zinc	ND	60.0	ug/L	SW846 6010B	04/17-04/18/06	H2KD51AV
		Dilution Factor: 1		Analysis Time..: 21:59	MDL.....: 3.8	

NOTE(S):

B Estimated result. Result is less than RL.

Report of Results: MVA6655

Particle Sizing
STL Project Number 142541

Prepared for:

Severn Trent
5815 Middlebrook Pike
Knoxville, TN 37921

Respectfully Submitted by:

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28 April 2006

MVA SCIENTIFIC CONSULTANTS

6655report042806

Report of Results: MVA6655

Particle Sizing: STL Project Number 142541

INTRODUCTION

This report includes the results of particle size analysis of eight particulate samples delivered to MVA Scientific Consultants on 18 April 2006. The samples were assigned MVA sample numbers as follows:

MVA#	Description
R0612	G-2949-R1-Particle Size Distribution Filter
R0613	G-2950-R1-Particle Size Distribution Acetone Probe Rinse
R0614	G-2951-R1-Particle Size Distribution Filter RB
R0615	G-2952-R1-Particle Size Distribution Acetone Probe Rinse RB
R0616	G-3055-R2-Particle Size Distribution Filter
R0617	G-3056-R2-Particle Size Distribution Acetone Probe Rinse
R0618	G-3139-R3-Particle Size Distribution Filter
R0619	G-3140-R3-Particle Size Distribution Acetone Probe Rinse

Analyses were performed at MVA Scientific Consultants during the period 18 April through 28 April 2006.

METHODS

The analyses were performed using a JEOL JSM-6500F field emission scanning electron microscope operating in automated mode under the control of a Noran Vantage x-ray analysis system, utilizing MVA SOP 317. The loading on the samples was variable and at least several hundred particles from each sample were individually sized and classified according to six client-requested size categories: 0.1-0.5, 0.5-1.0, 1.0-5.0, 5.0-10.0, 10.0-100.0, and >100.0 µm. The blank samples and two of the particle size distribution samples were very lightly loaded and fewer than one hundred particles from each were sized. The particle size data are presented in terms of particle number and in terms of estimated mass. The assumption has been made that the particles are all of similar density and therefore the particle volume distribution is equivalent to the particle mass distribution.

DISCUSSION AND RESULTS

The size distributions of the particles down to 0.1 micrometers are shown in Tables 1 and 2.

Table 1. MVA 6655. STL Project Number 142541
Percentages of Particles in Various Diameter Ranges by
Number of Particles

MVA#	R0612	R0613	R0614	R0615	R0616	R0617	R0618	R0619
Client ID	G-2949-R1	G-2950-R1	G-2951-R1	G-2952-R1	G-3055-R2	G-3056-R2	G-3139-R3	G-3140-R3
Diameter Range (µm)								
0.1-0.5	99.8	74.5	85.0	93.0	79.2	74.0	87.4	97.2
0.5-1.0	0.2	13.8	5.0	3.1	2.1	16.1	8.1	2.8
1.0-5.0	0.1	11.0	10.0	3.9	16.7	9.6	3.6	0.0
5.0-10.0	0.0	0.5	0.0	0.0	2.1	0.3	0.5	0.0
10.0-100.0	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.0
>100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Particles	2000	1999	20	129	48	1192	222	36

Table 2. MVA 6655. STL Project Number 142541
Percentages of Particles in Various Diameter Ranges by
Estimated Mass of Particles

MVA#	R0612	R0613	R0614	R0615	R0616	R0617	R0618	R0619
Client ID	G-2949-R1	G-2950-R1	G-2951-R1	G-2952-R1	G-3055-R2	G-3056-R2	G-3139-R3	G-3140-R3
Diameter Range (µm)								
0.1-0.5	14.2	0.1	2.4	13.3	0.3	1.4	0.2	85.9
0.5-1.0	1.1	0.4	1.5	12.3	0.0	4.4	0.3	14.1
1.0-5.0	84.7	9.2	96.1	74.3	39.2	50.3	9.1	0.0
5.0-10.0	0.0	8.2	0.0	0.0	60.5	43.8	6.0	0.0
10.0-100.0	0.0	82.1	0.0	0.0	0.0	0.0	84.5	0.0
>100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SEVERN TRENT STL

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ANALYTICAL REPORT

REVISED

PROJECT NO. 142541

Focus/US Filter Westates 0030

Lot #: H6D030169

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

May 15, 2006

ANALYTICAL METHODS SUMMARY

H6D030169

PARAMETER	ANALYTICAL METHOD
Volatile Organic Sampling Train (VOST)	SW846 VOST
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030169

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2G87	003	G-2910-R1-VOST PAIR #2 TENAX	03/28/06	
H2G89	004	G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL	03/28/06	
H2G9A	005	G-2912-R1-VOST PAIR #3 TENAX	03/28/06	
H2G9D	006	G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL	03/28/06	
H2G9F	007	G-2914-R1-VOST PAIR #4 TENAX	03/28/06	
H2G9G	008	G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL	03/28/06	
H2G9H	009	G-2916-R1-VOST CONDENSATE	03/28/06	
H2G9J	010	G-2917-R1-VOST TENAX FB	03/28/06	
H2G9L	011	G-2918-R1-VOST TENAX/CHARCOAL FB	03/28/06	
H2G9W	014	G-3008-R2-VOST PAIR #2 TENAX	03/29/06	
H2G91	015	G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL	03/29/06	
H2G97	016	G-3010-R2-VOST PAIR #3 TENAX	03/29/06	
H2G98	017	G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL	03/29/06	
H2G99	018	G-3012-R2-VOST PAIR #4 TENAX	03/29/06	
H2HAA	019	G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL	03/29/06	
H2HAD	020	G-3014-R2-VOST CONDENSATE	03/29/06	
H2HA7	021	G-3015-R2-VOST TENAX FB	03/29/06	
H2HCA	022	G-3016-R2-VOST TENAX/CHARCOAL FB	03/29/06	
H2HCD	023	G-3089-R3-VOST PAIR #1 TENAX	03/30/06	
H2HCF	024	G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL	03/30/06	
H2HCG	025	G-3091-R3-VOST PAIR #2 TENAX	03/30/06	
H2HCL	026	G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL	03/30/06	
H2HCM	027	G-3093-R3-VOST PAIR #3 TENAX	03/30/06	
H2HCN	028	G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL	03/30/06	
H2HCP	029	G-3095-R3-VOST PAIR #4 TENAX	03/30/06	
H2HCQ	030	G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL	03/30/06	
H2HCR	031	G-3097-R3-VOST CONDENSATE	03/30/06	
H2HCV	032	G-3098-R3-VOST TENAX FB	03/30/06	
H2HCW	033	G-3099-R3-VOST TENAX/CHARCOAL FB	03/30/06	
H2HCX	034	G-3100-R3-VOST TENAX TB	03/30/06	
H2HC0	035	G-3101-R3-VOST TENAX/CHARCOAL TB	03/30/06	
H2HC1	036	G-3102-R3-VOST DI WATER TB	03/28/06	
H2HC2	037	A-5363 MEDIA CHECK TENAX	03/28/06	
H2HC4	038	A-5364 MEDIA CHECK TENAX/CHARCOAL	03/28/06	
H2KHL	039	AUDIT VOST #1	03/28/06	
H2KHR	040	AUDIT VOST #2	03/28/06	

(Continued on next page)

SAMPLE SUMMARY

H6D030169

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2KHV	041	AUDIT VOST #3	03/28/06	
H2KHW	042	AUDIT VOST #4	03/28/06	
H2KHX	043	AUDIT VOST #5	03/28/06	
H2KH1	044	AUDIT VOST #6	03/28/06	
H2KH4	045	A-5388 MEDIA CHECK	03/28/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030169 – Revised 05/15/06

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered by the field test team.

The "Relinquished by" field on the chain of custody documentation was not signed by the field sampling team members. Samples were hand delivered by the sampling team, but custody was not relinquished.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Volatile Organic Sampling Train (VOST) Preparation and Analysis

VOST tubes and condensate samples were analyzed for the volatile organic target analytes by purge and trap GCMS using STL Knoxville standard operating procedures KNOX-MS-0011 and KNOX-MS-0015, based on the following methods:

- SW-846 5041A, "Analysis for Desorption of Sorbent Cartridges from Volatile Organic Sampling Train (VOST)"
- SW-846 8260B, "Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)"

Samples were received as SW-846 Method 0030 trains. Each Tenax and Tenax/charcoal tube is separately prepared by spiking a known amount of surrogate onto the media using a flash vaporization device. Volatile compounds are introduced into the gas chromatograph by thermal

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desorption of the analytes from the VOST tube using a clamshell oven and a purge and trap system of introduction. VOST condensates are spiked with surrogates and purged directly to the GC column. The components are separated using gas chromatography and detected using a mass spectrometer, which collectively provide both qualitative and quantitative information.

Sample final results were calculated using the following equations:

$$\text{VOST Result, ug} = (On\,column\,concentration, ug / L) * (Purge\ Volume, L)$$

$$\text{Condensate Result, ug/L} = (On\,column\,concentration, ug / L) * Dilution\ Factor$$

Batch matrix spike/matrix spike duplicate recoveries for the condensates were acceptable for all analytes except benzene, toluene and chlorobenzene. The matrix spike/matrix spike duplicate results are attributed to matrix effects. The laboratory control sample showed acceptable results indicating that the analysis was in control.

The following samples gave results for chlorobenzene and/or tetrachloroethene that were above the original laboratory calibration range, and flagged with an "E" qualifier:

- G-2910-R1-VOST Pair #2 Tenax
- G-2912-R1-VOST Pair #3 Tenax
- G-3089-R3-VOST Pair #1 Tenax
- G-3091-R3-VOST Pair #2 Tenax
- G-3093-R3-VOST Pair #3 Tenax

Reanalysis at a dilution was not possible since the entire sample is consumed during these types of analyses.

In order to obtain results for which precision and accuracy assessment can be measured for the "E" qualified values, additional procedures using an extended calibration range were undertaken. New calibration standards for chlorobenzene and tetrachloroethene were analyzed on 5/3/06 on the same associated instrument at concentrations of 10, 80, 160, 240 and 320 µg/L. These concentrations in the standard correspond to total amounts of the analytes of 0.25, 2, 4, 6 and 8 µg. The high standard exhibited some saturation for chlorobenzene at the highest values, but was used in the curve, because the loss of response due to saturation for this analyte is small and

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inconsequential to the quantitation. Subsequently, new average response factors for chlorobenzene and tetrachloroethene were calculated for the calibration range of 0.25 to 8 µg on the VOST tubes. The %RSD values calculated for the new response factors were acceptable for both compounds.

The new calibration data was not simply appended to the original curve. Instead, a new calibration curve was used to completely re-quantify the results and a percent difference was measured to assess the drift of response factors for the compounds analyzed on the different days.

As stated above, the following samples gave results for chlorobenzene and/or tetrachloroethene that were originally above the laboratory calibration range, and flagged with an "E" qualifier:

- G-2910-R1-VOST Pair #2 Tenax
- G-2912-R1-VOST Pair #3 Tenax
- G-3089-R3-VOST Pair #1 Tenax
- G-3091-R3-VOST Pair #2 Tenax
- G-3093-R3-VOST Pair #3 Tenax

These samples and the associated daily calibration check standard that were analyzed with these samples on 4/7/06 were re-quantified relative to the new extended calibration run on 5/3/06 curve. The re-quantified results are presented as a separate, additional report. The original data is also included which displays the "E" flagged data for comparison.

Note that the original initial calibration was still valid and being used for other analyses when the extended initial calibration curve was analyzed. Therefore, no major maintenance of the instrument had been performed during the time span from the initial calibration performed on 2/15/06 and the extended range calibration that was performed on 5/3/06. The %D (drift measurement) of the analytes based on the daily standard relative to either initial calibration curve is within the specifications of the method. Therefore, both calibration curves represent acceptable and compliant performance of the instrument for the entire analytical time span, inclusive of the day that the sample data were collected. The extended-range calibration bracketed the data within the range of the calibration, even though the new calibration was performed after the samples were analyzed, representing an external calibration method which is not the normal way to execute the referenced analytical method (SW-8260B).

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The exact response of any GC/MS instrument normally varies from day to day. This is the reason that daily calibration verification standards are analyzed, which is to judge whether the drift of the instrument calibration is significant in magnitude or is normal such that the curve is allowed to be in continued use. For either of these initial calibration curves, the drift (or change in response factor between the calibration used for quantification and the daily calibration verification standard) is within specifications of the method. The new, extended range calibration curve indicates linearity of the response to a level that is inclusive of the response of chlorobenzene and tetrachloroethene in any of these samples. The new response factors are somewhat higher (12% for tetrachloroethene and 10% for chlorobenzene) resulting in recalculated results approximately 10% lower than the original results, as shown by the following table.

STL Lot-Sample Number	STL Work Order Number	Client Sample ID	Target Analyte	Original Result (µg)	Recalculated Result (µg)
H6D030169-003	H2G87	G-2910-R1-VOST PAIR #2 TENAX	Chlorobenzene Tetrachloroethene	5.8 E 4.7 E	5.2 4.2
H6D030169-005	H2G9A	G-2912-R1-VOST PAIR #3 TENAX	Chlorobenzene	3.5 E	3.2
H6D030169-023	H2HCD	G-3089-R3-VOST PAIR #1 TENAX	Chlorobenzene	2.3 E	2.1
H6D030169-025	H2HCG	G-3091-R3-VOST PAIR #2 TENAX	Chlorobenzene Tetrachloroethene	3.4 E 2.4 E	3.1 2.2
H6D030169-027	H2HCM	G-2910-R1-VOST PAIR #2 TENAX	Chlorobenzene	3.1 E	2.8

VOST Tenax tubes were spiked with 6 µg of chlorobenzene and tetrachloroethene and analyzed on 5/9/06. VOST Tenax tubes were spiked with 12 µg of chlorobenzene and tetrachloroethene and analyzed on 5/3/06. The tubes were analyzed to show percent recovery results for a high concentration spike and spikes comparable to the sample levels observed. These analyses were quantified against the new calibration curve as well, and is presented in a table below, with the raw data placed in the miscellaneous data section of the data package.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

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Spiked Tenax Tube Recovery

Target Analyte	Spiked Amount (µg)	Recovered Amount (µg)	Percent Recovery (%)
Chlorobenzene	6.0	3.68	61%
Tetrachloroethene	6.0	4.78	80%
Chlorobenzene	12	7.60	63%
Tetrachloroethene	12	9.66	80%

In conclusion, the re-run data presents defensibility for the data beyond the original calibration points. The data demonstrate that linearity is reasonably extended beyond the top calibration point of the method and includes all the "E" values reported in the original data set. There is no systematic low bias observed for this data and no obvious measurement error. The sample concentrations obtained are defensible and should be acceptable for use for their intended purpose.

One surrogate recovery for sample G-3095-R3-VOST Pair #4 Tenax was outside QC limits. However, reanalysis of the sample was not possible since the entire sample was consumed during analysis. The archive pair G-3089-R3-VOST Pair #1 Tenax was analyzed which confirmed sample matrix effects.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-003 **Work Order #...:** H2G871AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0092 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.030**	**0.010**	**ug**	**0.0016**
Bromoform	**0.13**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0078 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0037 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**5.8 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.086**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.020**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.0087 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-003 **Work Order #...:** H2G871AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.069**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	**0.0028 J**	**0.010**	**ug**	**0.0010**
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**4.7 E**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.078**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0081 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0049 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0049 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(50 - 134)
1,2-Dichloroethane-d4	91	(50 - 134)
Toluene-d8	76	(57 - 127)
Bromofluorobenzene	64	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-003 **Work Order #:** H2G871AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-2910-R1-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-003 Work Order #...: H2G872AA Matrix.....: AIR
Date Sampled...: 03/28/06 Date Received..: 04/02/06
Prep Date.....: 04/07/06 Analysis Date..: 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 Method.....: SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	5.2	0.010	ug	0.0013
Tetrachloroethene	4.2	0.010	ug	0.0021

STL Knoxville - ACS

Client Sample ID: G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-004 **Work Order #...:** H2G891AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.098 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0047 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.020**	**0.010**	**ug**	**0.0016**
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.042 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0013 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0090 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.018**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0030 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.40**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0081 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-004 **Work Order #...:** H2G891AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.015 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.033**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0067 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.015**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(50 - 134)
1,2-Dichloroethane-d4	107	(50 - 134)
Toluene-d8	99	(57 - 127)
Bromofluorobenzene	96	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2911-R1-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-004 **Work Order #:** H2G891AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Unknown		0.068 NJ M	9.3166	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-005 **Work Order #...:** H2G9A1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.45**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.049**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.023**	**0.010**	**ug**	**0.0016**
Bromoform	**0.091**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0076 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0034 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.5 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.063**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.016**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-005 **Work Order #...:** H2G9A1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.026**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.68**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.088**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0080 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0046 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	70	(57 - 127)
Bromofluorobenzene	57	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-005 **Work Order #:** H2G9A1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.087 NJ M	10.088	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2912-R1-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-005 **Work Order #...:** H2G9A2AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**3.2**	**0.010**	**ug**	**0.0013**

STL Knoxville - ACS

Client Sample ID: G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-006 **Work Order #...:** H2G9D1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0062 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.024 J**	**0.025**	**ug**	**0.0066**
Bromomethane	**0.043 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.056**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0023 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.51**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.010 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-006 **Work Order #...:** H2G9D1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.016**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0056 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.012**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	118	(50 - 134)
1,2-Dichloroethane-d4	113	(50 - 134)
Toluene-d8	106	(57 - 127)
Bromofluorobenzene	97	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2913-R1-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-006 **Work Order #:** H2G9D1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Unknown		0.051 NJ M	9.3163	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2914-R1-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-007 **Work Order #...:** H2G9F1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.0079 J**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0017 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.031**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.050**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	**0.0029 J**	**0.010**	**ug**	**0.0025**
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2914-R1-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-007 **Work Order #...:** H2G9F1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	**0.0049 J**	**0.010**	**ug**	**0.0013**
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.11**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.011 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0059 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.028**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.032**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	**0.031 J**	**0.050**	**ug**	**0.0049**
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.015 J**	**0.020**	**ug**	**0.0034**
o-Xylene	**0.0036 J**	**0.010**	**ug**	**0.0017**
Xylenes (total)	**0.019 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	75	(57 - 127)
Bromofluorobenzene	65	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2914-R1-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-007 **Work Order #:** H2G9F1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.078 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-008 **Work Order #...:** H2G9G1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0013 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0042 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.30**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.19**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-008 **Work Order #...:** H2G9G1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.036**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.011**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	**0.021 J**	**0.050**	**ug**	**0.0049**
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	**0.0065 J**	**0.010**	**ug**	**0.0032**
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114	(50 - 134)
1,2-Dichloroethane-d4	110	(50 - 134)
Toluene-d8	95	(57 - 127)
Bromofluorobenzene	86	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2915-R1-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-008 **Work Order #:** H2G9G1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.2**	**1.0**	**ug/L**	**0.10**
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.0**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**6.1**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.14 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.3**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.19 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.57 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	106	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2916-R1-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-009 **Work Order #:** H2G9H1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AC **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**18**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2916-R1-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-009 **Work Order #...:** H2G9H1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	116	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

STL Knoxville - ACS

Client Sample ID: G-2917-R1-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-010 **Work Order #...:** H2G9J1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.099 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2917-R1-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-010 **Work Order #...:** H2G9J1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.013 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	79	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2917-R1-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-010 **Work Order #:** H2G9J1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-2918-R1-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-011 **Work Order #...:** H2G9L1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.0053 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-2918-R1-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-011 **Work Order #...:** H2G9L1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	118	(50 - 134)
1,2-Dichloroethane-d4	112	(50 - 134)
Toluene-d8	104	(57 - 127)
Bromofluorobenzene	93	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2918-R1-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-011 **Work Order #:** H2G9L1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3008-R2-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-014 **Work Order #...:** H2G9W1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.60**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0062 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.040**	**0.010**	**ug**	**0.0016**
Bromoform	**0.17**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0095 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0049 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**1.6**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.12**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.033**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3008-R2-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-014 **Work Order #...:** H2G9W1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.040**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.23**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.17**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0053 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0073 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0073 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	71	(57 - 127)
Bromofluorobenzene	64	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3008-R2-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-014 **Work Order #:** H2G9W1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-015 **Work Order #...:** H2G911AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.097 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.028 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0028 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0019 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.061**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.018 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-015 **Work Order #...:** H2G911AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.019 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0034 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0093 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	88	(57 - 127)
Bromofluorobenzene	90	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3009-R2-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-015 **Work Order #:** H2G911AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3010-R2-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-016 **Work Order #...:** H2G971AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0094 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.033**	**0.010**	**ug**	**0.0016**
Bromoform	**0.14**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0079 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0045 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.65**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.096**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.022**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3010-R2-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-016 **Work Order #...:** H2G971AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.018 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.087**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.013**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0054 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0054 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(50 - 134)
1,2-Dichloroethane-d4	75	(50 - 134)
Toluene-d8	79	(57 - 127)
Bromofluorobenzene	67	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3010-R2-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-016 **Work Order #:** H2G971AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.040 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-017 **Work Order #...:** H2G981AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.32**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0063 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-017 **Work Order #...:** H2G981AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0028 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.011**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	88	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3011-R2-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-017 **Work Order #:** H2G981AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-018 **Work Order #...:** H2G991AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.35**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.028**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.039**	**0.010**	**ug**	**0.0016**
Bromoform	**0.17**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.014**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0049 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**2.0**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.11**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.027**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-018 **Work Order #...:** H2G991AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	**0.0023 J**	**0.010**	**ug**	**0.0023**
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.010 J**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.021**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0061 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0068 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0068 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(50 - 134)
1,2-Dichloroethane-d4	68	(50 - 134)
Toluene-d8	66	(57 - 127)
Bromofluorobenzene	54	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3012-R2-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-018 **Work Order #:** H2G991AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-019 **Work Order #...:** H2HAA1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	**0.024 J**	**0.025**	**ug**	**0.0066**
Bromomethane	**0.024 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0031 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.012**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.021 J**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.018 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.010 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-019 **Work Order #...:** H2HAA1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0074 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	94	(57 - 127)
Bromofluorobenzene	88	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3013-R2-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-019 **Work Order #:** H2HAA1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.12 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.1 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.15 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	103	(80 - 120)
Bromofluorobenzene	90	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3014-R2-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-020 **Work Order #:** H2HAD1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AC **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3014-R2-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-020 **Work Order #...:** H2HAD1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.55 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	115	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-021 **Work Order #...:** H2HA71AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.089 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.024 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0026 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-021 **Work Order #...:** H2HA71AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	92	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3015-R2-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-021 **Work Order #:** H2HA71AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-022 **Work Order #...:** H2HCA1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.096 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.030 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.18**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-022 **Work Order #...:** H2HCA1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.016 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	100	(50 - 134)
Toluene-d8	93	(57 - 127)
Bromofluorobenzene	87	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3016-R2-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-022 **Work Order #:** H2HCA1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.16**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.010**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.038**	**0.010**	**ug**	**0.0016**
Bromoform	**0.12**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.011**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0038 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**2.3 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.027**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	**0.0018 J**	**0.010**	**ug**	**0.0013**
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.16**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.23**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.068**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0069 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0091 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.010 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(50 - 134)
1,2-Dichloroethane-d4	73	(50 - 134)
Toluene-d8	69	(57 - 127)
Bromofluorobenzene	49 *	(50 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-023 **Work Order #:** H2HCD1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3089-R3-VOST PAIR #1 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-023 **Work Order #...:** H2HCD2AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	**2.1**	**0.010**	**ug**	**0.0013**

STL Knoxville - ACS

Client Sample ID: G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-024 **Work Order #...:** H2HCF1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0035 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0014 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.049**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.25**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0077 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-024 **Work Order #...:** H2HCF1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.023 J**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0032 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0040 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.012**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	68	(50 - 134)
1,2-Dichloroethane-d4	71	(50 - 134)
Toluene-d8	70	(57 - 127)
Bromofluorobenzene	72	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3090-R3-VOST PAIR #1 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-024 **Work Order #:** H2HCF1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Nonane	111-84-2	0.026 NJ M	7.8805	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 **Work Order #...:** H2HCG1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.46**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0083 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.041**	**0.010**	**ug**	**0.0016**
Bromoform	**0.16**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.013**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0039 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.4 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.12**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.028**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 **Work Order #...:** H2HCG1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.36**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.033**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**2.4 E**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.37**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0057 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0065 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0065 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(50 - 134)
1,2-Dichloroethane-d4	76	(50 - 134)
Toluene-d8	73	(57 - 127)
Bromofluorobenzene	59	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-025 **Work Order #:** H2HCG1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.074 NJ M	10.085	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3091-R3-VOST PAIR #2 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-025 Work Order #...: H2HCG2AA Matrix.....: AIR
Date Sampled...: 03/30/06 Date Received..: 04/02/06
Prep Date.....: 04/07/06 Analysis Date..: 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 Method.....: SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	3.1	0.010	ug	0.0013
Tetrachloroethene	2.2	0.010	ug	0.0021

STL Knoxville - ACS

Client Sample ID: G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-026 **Work Order #...:** H2HCL1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0021 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0090 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.083**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0076 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-026 **Work Order #...:** H2HCL1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.12**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0043 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.016**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	86	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3092-R3-VOST PAIR #2 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-026 **Work Order #:** H2HCL1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.54**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0054 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.036**	**0.010**	**ug**	**0.0016**
Bromoform	**0.15**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0096 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0031 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**3.1 E**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.020**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027 **Work Order #...:** H2HCM1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.090**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.16**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**1.1**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.12**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0061 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0061 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	77	(57 - 127)
Bromofluorobenzene	63	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

STL Knoxville - ACS

G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-027 **Work Order #:** H2HCM1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.063 NJ M	10.089	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3093-R3-VOST PAIR #3 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-027
Date Sampled...: 03/30/06
Prep Date.....: 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1

Work Order #...: H2HCM2AA
Date Received..: 04/02/06
Analysis Date..: 04/07/06

Method.....: SW846 VOST

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorobenzene	2.8	0.010	ug	0.0013

STL Knoxville - ACS

Client Sample ID: G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-028 **Work Order #...:** H2HCN1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.10 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0032 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0048 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.0044 J**	**0.010**	**ug**	**0.0019**
Chloromethane	**0.021 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0064 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-028 **Work Order #...:** H2HCN1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.071**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0097 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0072 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	93	(57 - 127)
Bromofluorobenzene	84	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3094-R3-VOST PAIR #3 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-028 **Work Order #:** H2HCN1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-029 **Work Order #...:** H2HCP1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.37**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0069 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	**0.040**	**0.010**	**ug**	**0.0016**
Bromoform	**0.13**	**0.025**	**ug**	**0.0066**
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.0037 J**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**1.4**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.10**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.025**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-029 **Work Order #...:** H2HCP1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.26**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	**0.069**	**0.025**	**ug**	**0.010**
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.36**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.19**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	**0.0049 J**	**0.020**	**ug**	**0.0034**
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	**0.0049 J**	**0.030**	**ug**	**0.0048**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(50 - 134)
1,2-Dichloroethane-d4	71	(50 - 134)
Toluene-d8	64	(57 - 127)
Bromofluorobenzene	49 *	(50 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3095-R3-VOST PAIR #4 TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-029 **Work Order #:** H2HCP1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Benzaldehyde	100-52-7	0.041 NJ M	10.088	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-030 **Work Order #...:** H2HCQ1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.088 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.027 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.0027 J**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	**0.0077 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	**0.021 J**	**0.025**	**ug**	**0.010**
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.051**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	**0.0099 J**	**0.025**	**ug**	**0.0050**
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-030 **Work Order #...:** H2HCQ1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.035**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.0024 J**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0025 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	**0.0067 J**	**0.010**	**ug**	**0.0050**
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(50 - 134)
1,2-Dichloroethane-d4	107	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	92	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3096-R3-VOST PAIR #4 TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-030 **Work Order #:** H2HCQ1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**5.9 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.14
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	ND	1.0	ug/L	0.20
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.11 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.56 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.2 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.12 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3097-R3-VOST CONDENSATE

GC/MS Volatiles

Lot-Sample #: H6D030169-031 **Work Order #:** H2HCR1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AC **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.3 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.3**	**1.0**	**ug/L**	**0.10**
Bromoform	**0.84 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	**0.22 J**	**1.0**	**ug/L**	**0.10**
Chlorodibromomethane	**1.1**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**6.3**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3097-R3-VOST CONDENSATE DUP

GC/MS Volatiles

Lot-Sample #...: H6D030169-031 **Work Order #...:** H2HCR1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.1 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.76 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	110	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-032 **Work Order #...:** H2HCV1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.025 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-032 **Work Order #...:** H2HCV1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	95	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3098-R3-VOST TENAX FB

GC/MS Volatiles

Lot-Sample #: H6D030169-032 **Work Order #:** H2HCV1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-033 **Work Order #...:** H2HCW1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.027 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.016 J**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #...: H6D030169-033 **Work Order #...:** H2HCW1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	97	(50 - 134)
Toluene-d8	92	(57 - 127)
Bromofluorobenzene	81	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3099-R3-VOST TENAX/CHARCOAL FB

GC/MS Volatiles

Lot-Sample #: H6D030169-033 **Work Order #:** H2HCW1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-034 **Work Order #...:** H2HCX1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.092 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.023 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-034 **Work Order #...:** H2HCX1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.013 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	96	(57 - 127)
Bromofluorobenzene	82	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3100-R3-VOST TENAX TB

GC/MS Volatiles

Lot-Sample #: H6D030169-034 **Work Order #:** H2HCX1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-035 **Work Order #...:** H2HC01AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.093 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.029**	**0.025**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-035 **Work Order #...:** H2HC01AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.015 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(50 - 134)
1,2-Dichloroethane-d4	97	(50 - 134)
Toluene-d8	94	(57 - 127)
Bromofluorobenzene	78	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3101-R3-VOST TENAX/CHARCOAL TB

GC/MS Volatiles

Lot-Sample #: H6D030169-035 **Work Order #:** H2HC01AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: G-3102-R3-VOST DI WATER TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-036 **Work Order #...:** H2HC11AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.1 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.7**	**1.0**	**ug/L**	**0.10**
Bromoform	**0.86 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.1**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**8.0**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3102-R3-VOST DI WATER TB

GC/MS Volatiles

Lot-Sample #...: H6D030169-036 **Work Order #...:** H2HC11AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**1.2 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.91 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
1,2-Dichloroethane-d4	113	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3102-R3-VOST DI WATER TB

GC/MS Volatiles

Lot-Sample #: H6D030169-036 **Work Order #:** H2HC11AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: A-5363 MEDIA CHECK TENAX

GC/MS Volatiles

Lot-Sample #...: H6D030169-037 **Work Order #...:** H2HC21AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(50 - 134)
1,2-Dichloroethane-d4	96	(50 - 134)
Toluene-d8	95	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

A-5363 MEDIA CHECK TENAX

GC/MS Volatiles

Lot-Sample #: H6D030169-037 **Work Order #:** H2HC21AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: A-5364 MEDIA CHECK TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-038 **Work Order #...:** H2HC41AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.094 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	ND	0.010	ug	0.0032
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.029 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	**0.011**	**0.010**	**ug**	**0.0032**
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: A-5364 MEDIA CHECK TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #...: H6D030169-038 **Work Order #...:** H2HC41AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(50 - 134)
1,2-Dichloroethane-d4	99	(50 - 134)
Toluene-d8	91	(57 - 127)
Bromofluorobenzene	83	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

A-5364 MEDIA CHECK TENAX/CHARCOAL

GC/MS Volatiles

Lot-Sample #: H6D030169-038 **Work Order #:** H2HC41AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #1

GC/MS Volatiles

Lot-Sample #...: H6D030169-039 **Work Order #...:** H2KHL1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.31**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.054**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.082 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.015**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.041**	**0.010**	**ug**	**0.0011**
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.065**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #1

GC/MS Volatiles

Lot-Sample #...: H6D030169-039 **Work Order #...:** H2KHL1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.075**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0032 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(50 - 134)
1,2-Dichloroethane-d4	88	(50 - 134)
Toluene-d8	85	(57 - 127)
Bromofluorobenzene	77	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #1

GC/MS Volatiles

Lot-Sample #: H6D030169-039 **Work Order #:** H2KHL1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #2

GC/MS Volatiles

Lot-Sample #...: H6D030169-040 **Work Order #...:** H2KHR1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.39**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.058**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.091 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.046**	**0.010**	**ug**	**0.0011**
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.074**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #2

GC/MS Volatiles

Lot-Sample #...: H6D030169-040 **Work Order #...:** H2KHR1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.077**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0035 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(50 - 134)
1,2-Dichloroethane-d4	87	(50 - 134)
Toluene-d8	88	(57 - 127)
Bromofluorobenzene	78	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #2

GC/MS Volatiles

Lot-Sample #: H6D030169-040 **Work Order #:** H2KHR1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #3

GC/MS Volatiles

Lot-Sample #...: H6D030169-041 **Work Order #...:** H2KHV1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.39**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.057**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.084 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.045**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0013 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.069**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #3

GC/MS Volatiles

Lot-Sample #...: H6D030169-041 **Work Order #...:** H2KHV1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.072**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	77	(50 - 134)
1,2-Dichloroethane-d4	77	(50 - 134)
Toluene-d8	82	(57 - 127)
Bromofluorobenzene	72	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #3

GC/MS Volatiles

Lot-Sample #: H6D030169-041 **Work Order #:** H2KHV1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #4

GC/MS Volatiles

Lot-Sample #...: H6D030169-042 **Work Order #...:** H2KHW1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.26**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.058**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.068 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.046**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0016 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.072**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #4

GC/MS Volatiles

Lot-Sample #...: H6D030169-042 **Work Order #...:** H2KHW1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.075**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0033 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(50 - 134)
1,2-Dichloroethane-d4	82	(50 - 134)
Toluene-d8	87	(57 - 127)
Bromofluorobenzene	76	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #4

GC/MS Volatiles

Lot-Sample #: H6D030169-042 **Work Order #:** H2KHW1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #5

GC/MS Volatiles

Lot-Sample #...: H6D030169-043 **Work Order #...:** H2KHX1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.18**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.063**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.046 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.015**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.047**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0029 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.076**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #5

GC/MS Volatiles

Lot-Sample #...: H6D030169-043 **Work Order #...:** H2KHX1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.076**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	**0.034 J**	**0.10**	**ug**	**0.031**
Toluene	**0.0030 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(50 - 134)
1,2-Dichloroethane-d4	87	(50 - 134)
Toluene-d8	76	(57 - 127)
Bromofluorobenzene	58	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #5

GC/MS Volatiles

Lot-Sample #: H6D030169-043 **Work Order #:** H2KHX1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: AUDIT VOST #6

GC/MS Volatiles

Lot-Sample #...: H6D030169-044 **Work Order #...:** H2KH11AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/07/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6097054
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	0.10	ug	0.085
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.059**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.016**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.049**	**0.010**	**ug**	**0.0011**
Chlorobenzene	**0.0044 J**	**0.010**	**ug**	**0.0013**
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.074**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: AUDIT VOST #6

GC/MS Volatiles

Lot-Sample #...: H6D030169-044 **Work Order #...:** H2KH11AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.075**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.16**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0034 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(50 - 134)
1,2-Dichloroethane-d4	85	(50 - 134)
Toluene-d8	87	(57 - 127)
Bromofluorobenzene	64	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

AUDIT VOST #6

GC/MS Volatiles

Lot-Sample #: H6D030169-044 **Work Order #:** H2KH11AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: A-5388 MEDIA CHECK

GC/MS Volatiles

Lot-Sample #...: H6D030169-045 **Work Order #...:** H2KH41AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096033
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.098 J,B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.0078 J**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	**0.026 J,B**	**0.050**	**ug**	**0.022**
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	ND	0.010	ug	0.0011
Carbon tetrachloride	ND	0.010	ug	0.0011
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	ND	0.010	ug	0.0019
Chloromethane	ND	0.010	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: A-5388 MEDIA CHECK

GC/MS Volatiles

Lot-Sample #...: H6D030169-045 **Work Order #...:** H2KH41AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	**0.014 J,B**	**0.050**	**ug**	**0.0016**
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	ND	0.025	ug	0.013
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	ND	0.010	ug	0.0021
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	ND	0.010	ug	0.0022
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114	(50 - 134)
1,2-Dichloroethane-d4	102	(50 - 134)
Toluene-d8	102	(57 - 127)
Bromofluorobenzene	90	(50 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

A-5388 MEDIA CHECK

GC/MS Volatiles

Lot-Sample #: H6D030169-045 **Work Order #:** H2KH41AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 0040

Lot #: H6D030177

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 12, 2006

ANALYTICAL METHODS SUMMARY

H6D030177

PARAMETER	ANALYTICAL METHOD
Unspeciated Volatile Organics	EPA-18 0040 COND

References:

EPA-18 "GUIDANCE FOR TOTAL ORGANICS," EPA/600/R-96/033, MARCH 1996.

SAMPLE SUMMARY

H6D030177

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2HDX	001	G-2941-R1-METHOD 0040 TRAIN CONDENSATE	03/28/06	
H2HD7	002	G-2943-R1-METHOD 0040 TRAIN CONDENSATE TB	03/28/06	
H2HD8	003	G-3053-R2-METHOD 0040 TRAIN CONDENSATE	03/29/06	
H2HEA	004	G-3137-R3-METHOD 0040 TRAIN CONDENSATE	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030177

The results reported herein are applicable to the samples submitted for analysis only.

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The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

One of the two vials each for samples G-3053 and G-3137 was received empty.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

The method 0040 sampling train condensate samples were analyzed for total unspeciated mass in the volatile range using STL Knoxville standard operating procedure KNOX-GC-0016, based on the following methods:

- SW-846 8015B, "Nonhalogenated Organics Using GC/FID"
- SW-846 5030B, "Purge and Trap for Aqueous Samples"
- U.S. EPA "Guidance for Total Organics" (1996)

Gas chromatography is used to determine the concentration of total volatile unspeciated mass in the samples. A gas chromatograph with a flame ionization detector (GC/FID) is used for the detection, identification and quantification of the volatile organic target analytes. Samples are spiked with an internal standard (4-bromofluorobenzene) and a

PROJECT NARRATIVE
H6D030177

surrogate compound (n-octane), sparged in a purge-and-trap sampler and the volatile analytes are desorbed to the inlet of the gas chromatograph. This procedure is non-specific in that all volatile organic compounds are detected that elute between the solvent peak and n-heptane, and cause flame ionization detector response. This range of elution approximately corresponds to the boiling range of 0°C to 100°C, or carbon numbers C_4 (n-butane) through C_7 (n-heptane). The surrogate compound is used to quantify sample recovery.

The preparation and analysis of method blanks is used to evaluate background response. Results for the C_4 range are blank corrected by subtraction of the laboratory method blank result. The preparation and analysis of laboratory control samples are used to monitor test method performance.

Results are calculated from peak areas as compared to five point calibration curves. Sample results are calculated using the following equation:

$$\text{Result boiling range i}, ug/\text{L} = (Raw\,Concentration\,of\,boiling\,range\ i, ug/L) * (Dilution\,Factor)$$

Note: Results for the C_4 range are blank corrected in order to remove peaks associated with the tetraglyme solvent used during analysis.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2941-R1-METHOD 0040 TRAIN CONDENSATE

GC Volatiles

Lot-Sample #...: H6D030177-001 **Work Order #...:** H2HDX1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.58 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**0.74 J**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	102	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2943-R1-METHOD 0040 TRAIN CONDENSATE TB

GC Volatiles

Lot-Sample #...: H6D030177-002 **Work Order #...:** H2HD71AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.65 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**2.5**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	100	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3053-R2-METHOD 0040 TRAIN CONDENSATE

GC Volatiles

Lot-Sample #...: H6D030177-003 **Work Order #...:** H2HD81AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.33 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**0.87 J**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	99	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3137-R3-METHOD 0040 TRAIN CONDENSATE

GC Volatiles

Lot-Sample #...: H6D030177-004 **Work Order #...:** H2HEA1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095081
Dilution Factor: 1 **Method.....:** EPA-18 0040 COND

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C4 (0 to 30 deg C)	ND	1.0	ug/L	1.0
C5 (30 to 60 deg C)	**0.30 J,B**	**1.0**	**ug/L**	**0.10**
C6 (60 to 90 deg C)	**0.93 J**	**1.0**	**ug/L**	**0.10**
C7 (90 to 98 deg C)	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C8	100	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 0061

Lot #: H6D030194

William Anderson

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SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 14, 2006

ANALYTICAL METHODS SUMMARY

H6D030194

PARAMETER	ANALYTICAL METHOD
Hexavalent Chromium	SW846 7199

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030194

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2HJV	001	G-2944-R1-METHOD 0061-0.5N KOH IMPINGERS COMPOSITE	03/28/06	
H2HJ0	002	G-2946-R1-METHOD 0061-0.5N KOH IMPINGER COMPOSITE FSD	03/30/06	
H2HJ6	003	G-2947-R1-METHOD 0061-0.5N KOH IMPINGER SOULTION RB	03/28/06	
H2HJ8	004	G-2948-R1-METHOD 0061-0.5N KOH IMPINGER SOULTION REAGENT SPIKE	03/30/06	
H2HKF	005	G-3054-R2-METHOD 0061-0.5N KOH IMPINGER COMPOSITE	03/29/06	
H2HKN	006	G-3138-R3-METHOD 0061-0.5N KOH IMPINGER COMPOSITE	03/30/06	
H2H16	007	G-2945-R1-METHOD 0061-0.5N KOH IMPINGER COMPOSITE FS	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030194

The results reported herein are applicable to the samples submitted for analysis only.

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The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Samples were analyzed for hexavalent chromium (Cr^{+6}) by ion chromatography using SOP number KNOX-WC-0003 (based on EPA methods 0061 and 7199). All sample results were reported as total ug hexavalent chromium. Results were calculated using the following equation:

$$Cr^{+6}, ug = \left(Cr^{+6}, ug / L\right) * \left(\text{Sample Volume, L}\right) * \text{Bench Dilution}$$

The dilution factor reported on the sample result form is actually the combination of factors (not just a dilution factor) required by the method to convert the reporting limit and method detection limit from ug/L to total ug:

$$\text{Dilution Factor} = \left(\text{Sample Volume, L}\right) * \text{Bench Dilution}$$

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PROJECT NARRATIVE
H6D030194

Note: A sample volume of 100 mL was used to convert the results to total ug for the method blanks, laboratory control samples, and client reagent blanks in order to standardize the analyte sample total.

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Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2944-R1-METHOD 0061-0.5N KOH IMPINGERS COMPOSITE

General Chemistry

Lot-Sample #...: H6D030194-001 **Work Order #...:** H2HJV **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**5.6**	**0.70**	**ug**	**SW846 7199**	**04/07/06**	**6103131**

Dilution Factor: 1.4 MDL.....: 0.21

STL Knoxville - ACS

Client Sample ID: G-2946-R1-METHOD 0061-0.5N KOH IMPINGER COMPOSITE FSD

General Chemistry

Lot-Sample #...: H6D030194-002 Work Order #...: H2HJ0 Matrix.....: AIR
Date Sampled...: 03/30/06 Date Received...: 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	38.1	0.70	ug	SW846 7199	04/07/06	6103131

Dilution Factor: 1.4 MDL.....: 0.21

STL Knoxville - ACS

Client Sample ID: G-2947-R1-METHOD 0061-0.5N KOH IMPINGER SOULTION RB

General Chemistry

Lot-Sample #...: H6D030194-003 **Work Order #...:** H2HJ6 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.050	ug	SW846 7199	04/07/06	6103131

Dilution Factor: 0.1 MDL.....: 0.015

STL Knoxville - ACS

Client Sample ID: G-2948-R1-METHOD 0061-0.5N KOH IMPINGER SOULTION REAGENT SPIKE

General Chemistry

Lot-Sample #...: H6D030194-004 **Work Order #...:** H2HJ8 **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**2.4**	**0.050**	**ug**	**SW846 7199**	**04/07/06**	**6103131**

Dilution Factor: 0.1 MDL.....: 0.015

STL Knoxville - ACS

Client Sample ID: G-3054-R2-METHOD 0061-0.5N KOH IMPINGER COMPOSITE

General Chemistry

Lot-Sample #...: H6D030194-005 **Work Order #...:** H2HKF **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	5.9	0.83	ug	SW846 7199	04/07/06	6103131

Dilution Factor: 1.66 MDL.....: 0.25

STL Knoxville - ACS

Client Sample ID: G-3138-R3-METHOD 0061-0.5N KOH IMPINGER COMPOSITE

General Chemistry

Lot-Sample #...: H6D030194-006 **Work Order #...:** H2HKN **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**7.5**	**0.82**	**ug**	**SW846 7199**	**04/07/06**	**6103131**

Dilution Factor: 1.65 MDL.....: 0.25

STL Knoxville - ACS

Client Sample ID: G-2945-R1-METHOD 0061-0.5N KOH IMPINGER COMPOSITE FS

General Chemistry

Lot-Sample #...: H6D030194-007 **Work Order #...:** H2H16 **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**18.3**	**0.70**	**ug**	**SW846 7199**	**04/07/06**	**6103131**

Dilution Factor: 1.4 MDL.....: 0.21

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates M29

Lot #: H6D030224

William Anderson

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SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 14, 2006

ANALYTICAL METHODS SUMMARY

H6D030224

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030224

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2HV1	001	G-2953/2954-R1-METHOD 0060/29 FRONT HALF COMPOSITE	03/28/06	
H2HV2	002	G-2955-R1-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS	03/28/06	
H2HV3	003	G-2956-R1-METHOD 0060/29 EMPTY IMPINGER #4	03/28/06	
H2HV6	004	G-2957-R1-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS	03/28/06	
H2HV7	005	G-2958-R1-METHOD 0060/29 8N HCL IMPINGER RINSE	03/28/06	
H2HV8	006	G-2959/2960/2964/2965/2970/2971-R1 M29 BLANK FRONT HALF	03/28/06	
H2HWF	007	G-2961/2966/2972-R1 M29 BLANK BACK HALF	03/28/06	
H2HWL	008	G-3163/2967/2973-R1 M29 BLANK EMPTY IMPINGER	03/28/06	
H2HWN	009	G-2962/2968/2974-R1 M29 BLANK KMNO4 IMPINGER	03/28/06	
H2HWP	010	G-2963/2969/2975-R1 M29 BLANK HCL IMPINGER RINSE	03/28/06	
H2HWQ	011	G-3057/3058-R2-METHOD 0060/29 FRONT HALF COMPOSITE	03/29/06	
H2HWT	012	G-3059-R2-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS	03/29/06	
H2HWV	013	G-3060-R2-METHOD 0060/29 EMPTY IMPINGER #4	03/29/06	
H2HW0	014	G-3061-R2-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS	03/29/06	
H2HW2	015	G-3062-R2-METHOD 0060/29 8N HCL IMPINGER RINSE	03/29/06	
H2HW4	016	G-3141/3142-R3-METHOD 0060/29 FRONT HALF COMPOSITE	03/30/06	
H2HW5	017	G-3143-R3-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS	03/30/06	
H2HW6	018	G-3144-R3-METHOD 0060/29 EMPTY IMPINGER #4	03/30/06	
H2HW7	019	G-3145-R3-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS	03/30/06	
H2HW8	020	G-3146-R3-METHOD 0060/29 8N HCL IMPINGER RINSE	03/30/06	
H2HXA	021	A-5383 MEDIA CHECK	03/28/06	

NOTE(S):

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PROJECT NARRATIVE
H6D030224

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Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Multi-Metals Train Preparation and Analysis

These stack gas samples were prepared and analyzed using STL Knoxville standard operating procedure KNOX-MT-0006 which is based on EPA SW-846 Method 0060, "Determination of Metals in Stack Emissions" and Method 29, "Determination of Metals Emissions from Stationary Sources". SW-846 Methods 6010B and 7470A as incorporated in STL Knoxville standard operating procedures KNOX-MT-0007 and KNOX-MT-0009 were used to perform the final instrument analysis.

Acid digestion was performed on the front half particulate filter and the nitric acid probe rinse fractions separately using HNO_3 and HF. After digestion, these two fractions were combined, and the HF was sequestered using H_3BO_3 followed by another heating cycle. This digestate was adjusted to final volume and analyzed by ICP. A portion of the ICP digestate was prepared for CVAA analysis in order to determine the particle-bound mercury. Results were calculated using the following equations:

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PROJECT NARRATIVE
H6D030224

$$ICPAnalyte,\ \mu g = \begin{pmatrix} Raw\ Sample \\ Concentration,\ \mu g/L \end{pmatrix} \times \begin{pmatrix} Bench \\ Dilution \\ Factor \end{pmatrix} \times \begin{pmatrix} Final\ Volume \\ ICP\ Digestate,\ L \end{pmatrix}$$

$$Hg,\ ug = \begin{pmatrix} Raw\ Sample \\ Concentration,\ \mu g/L \end{pmatrix} \times \begin{pmatrix} Bench \\ Dilution \\ Factor \end{pmatrix} \times \begin{pmatrix} Final\ Volume \\ ICP\ Digestate,\ L \end{pmatrix} \times \begin{pmatrix} \dfrac{Final\ Volume\ Hg\ Digestate,\ mL}{Volume\ ICP\ Digestate\ Used,\ mL} \end{pmatrix}$$

The 5%HNO_3/10%H_2O_2 impinger samples were reduced in volume to 100 mL. A 20 milliliter portion of the concentrated sample was removed and processed for mercury. The remaining 80 mL of concentrated sample was digested using HNO_3 and H_2O_2, adjusted to a final volume of 80 mL, and analyzed by ICP. Results were calculated using the following equations:

$$ICPAnalyte,\ \mu g = \begin{pmatrix} Raw\ Sample \\ Concentration,\ \mu g/L \end{pmatrix} \times \begin{pmatrix} Bench \\ Dilution \\ Factor \end{pmatrix} \times \begin{pmatrix} Final\ Volume \\ Concentrated \\ Sample,\ L \end{pmatrix} \times \begin{pmatrix} \dfrac{Final\ Volume\ ICP\ Digestate,\ mL}{Volume\ Conc.\ Sample\ Digested,\ mL} \end{pmatrix}$$

$$Hg,\ \mu g = \begin{pmatrix} Raw\ Sample \\ Concentration,\ \mu g/L \end{pmatrix} \times \begin{pmatrix} Bench \\ Dilution \\ Factor \end{pmatrix} \times \begin{pmatrix} Final\ Volume \\ Concentrated \\ Sample,\ L \end{pmatrix} \times \begin{pmatrix} \dfrac{Final\ Volume\ Hg\ Digestate,\ mL}{Volume\ Conc.\ Sample\ Digested,\ mL} \end{pmatrix}$$

For the 0.1N HNO_3 rinse samples (empty impingers), a 2.5 milliliter portion of the sample as received was removed and processed for mercury.

The 4% $KMnO_4$/10%H_2SO_4 impinger samples were filtered to remove MnO_2, followed by removal of a 25 mL portion of filtrate for mercury processing. The filtered MnO_2 residue was digested in HCl, combined with the HCl rinse sample and analyzed for mercury.

Results for the 0.1N HNO_3 rinse samples and the $KMnO_4$ filtrate were calculated using the following equation:

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PROJECT NARRATIVE
H6D030224

$$Hg,\ ug = \begin{pmatrix} Raw\ Sample \\ Concentration,\ \mu g/L \end{pmatrix} \times \begin{pmatrix} Bench \\ Dilution \\ Factor \end{pmatrix} \times \begin{pmatrix} Total \\ Sample \\ Volume,\ L \end{pmatrix} \times \left(\frac{Final\ Volume\ Hg\ Digestate,\ mL}{Volume\ Sample\ Digested,\ mL} \right)$$

Results for the combined MnO_2 residue HCl digestates and HCl rinse samples were calculated as follows:

$$Hg,\ ug = \begin{pmatrix} Raw\ Sample \\ Concentration,\ \mu g/L \end{pmatrix} \times \begin{pmatrix} Bench \\ Dilution \\ Factor \end{pmatrix} \times \begin{pmatrix} Total\ Sample\ Volume,\ L \\ + \\ MnO_2\ HCl\ Volume,\ L \end{pmatrix} \times \left(\frac{Final\ Volume\ Hg\ Digestate,\ mL}{Volume\ Sample\ Digested,\ mL} \right)$$

Please note that the dilution factor reported on the mercury sample result form is actually the combination of preparation factors (not just a dilution factor) required by the method to convert the reporting limits and method detection limits in concentration units from ug/L to a total ug unit:

$$Hg\ Dilution\ Factor = \begin{pmatrix} Bench \\ Dilution \\ Factor \end{pmatrix} \times \begin{pmatrix} Total \\ Sample \\ Volume,\ L \end{pmatrix} \times \left(\frac{Final\ Volume\ Hg\ Digestate,\ mL}{Volume\ Sample\ Digested,\ mL} \right)$$

Note: The $Total\ Sample\ Volume,\ L$ for the 5%HNO_3/10%H_2O_2 impinger samples is the final volume of the concentrated sample. The $Total\ Sample\ Volume,\ L$ for the combined MnO_2 residue HCl digestates and HCl rinse samples is equal to the total sample volume plus the MnO_2 HCl volume.

The serial dilution of samples G-2953/2954-R1-Method 0060/29 Front Half Composite and G-2955-R1-Method 0060/29 5% HNO3/10% H2O2 Impingers were outside control limits for aluminum, copper and manganese due to physical or chemical matrix interferences.

The post digestion spike/post digestion spike duplicate recoveries for samples G-2953/2954-R1-Method 0060/29 Front Half Composite, G-3141/3142-R3-Method 0060/29 Front Half Composite and G-3057/3058-R2-Method 0060/29 Front Half Composite were outside control limits for lead. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. Results outside of

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PROJECT NARRATIVE
H6D030224

limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level.

The matrix spike duplicate recovery and RPD for sample G-2961/2966/2972-R1 M29 Blank Back Half was outside control limits for manganese. However, the laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects.

The matrix spike/matrix spike duplicate recoveries for sample G-2958-R1-Method 0060/29 8N HCL Impinger Rinse were outside control limits for mercury because the native analyte concentration in the sample was at least four times greater than the spike level. The laboratory control samples showed acceptable results indicating that the analysis was in control. This sample was redigested and analyzed at a dilution in order to provide a calculated percent recovery for the matrix spike/matrix spike duplicate. Both sets of data are included in the report.

The matrix spike duplicate recoveries and RPDs for samples G-2962/2968/2974- R1 M29 Blank KMN04 Impinger and G-2963/2969/2975-R1 M29 Blank HCL Impinger Rinse were outside control limits for mercury. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. The samples received by the laboratory for the matrix spike duplicate analysis for the afore mentioned samples were reanalyzed for the purpose of confirming the samples as received were contaminated with mercury.

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Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2953/2954-R1-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-001 Matrix.....: AIR
Date Sampled...: 03/28/06 Date Received..: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	105	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AA
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 11.0	
Antimony	3.9 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AC
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 1.4	
Arsenic	5.6	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AD
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.35	
Barium	7.2 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AE
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.35	
Beryllium	0.20 B	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV11AF
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.18	
Cadmium	10.2	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV11AG
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.50	
Chromium	54.5	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AH
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.28	
Cobalt	0.62 B	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AJ
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.50	
Copper	162	2.5	ug	SW846 6010B	04/05-04/10/06	H2HV11AK
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.70	
Lead	352	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AL
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.37	
Manganese	59.5	1.5	ug	SW846 6010B	04/05-04/10/06	H2HV11AM
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.18	
Nickel	10.9	4.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AN
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.44	
Selenium	3.3	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AP
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-2953/2954-R1-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-001 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	**1.4 B**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV11AQ**
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.97	
Thallium	**10**	**3.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV11AR**
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 3.5	
Vanadium	**2.5 B**	**5.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV11AT**
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.50	
Zinc	**206**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV11AU**
		Dilution Factor: 1		Analysis Time..: 16:50	MDL.....: 0.38	
Prep Batch #...: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HV11AV
		Dilution Factor: 1		Analysis Time..: 15:46	MDL.....: 0.060	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2955-R1-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-002 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	**27.3**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AA**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AC
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AD
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.33	
Barium	**3.0 B**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AE**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV21AF
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.18	
Cadmium	**1.9**	**0.50**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AG**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.082	
Chromium	**1.5**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AH**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AJ
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.50	
Copper	**5.1**	**2.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AK**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.70	
Lead	**4.8**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AL**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.37	
Manganese	**6.3**	**1.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AM**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.18	
Nickel	**1.1 B**	**4.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AN**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.40	
Selenium	**1.2**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AP**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-2955-R1-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-002 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	**1.2 B**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AQ**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HV21AR
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AT
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.50	
Zinc	**12.4**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV21AU**
		Dilution Factor: 1		Analysis Time..: 15:36	MDL.....: 0.45	

Prep Batch #...: 6097038

Mercury	**1.3**	**0.40**	**ug**	**SW846 7470A**	**04/10/06**	**H2HV21AV**
		Dilution Factor: 2		Analysis Time..: 16:47	MDL.....: 0.12	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2956-R1-METHOD 0060/29 EMPTY IMPINGER #4

TOTAL Metals

Lot-Sample #...: H6D030224-003 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097038						
Mercury	ND	0.42	ug	SW846 7470A	04/10/06	H2HV31AA
		Dilution Factor: 2.1		Analysis Time..: 16:51	MDL.....: 0.13	

STL Knoxville - ACS

Client Sample ID: G-2957-R1-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-004 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	**0.93**	**0.14**	**ug**	**SW846 7470A**	**04/10/06**	**H2HV61AA**
		Dilution Factor: 0.72		Analysis Time..: 16:07	MDL.....: 0.043	

STL Knoxville - ACS

Client Sample ID: G-2958-R1-METHOD 0060/29 8N HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-005 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	**8.4**	**0.35**	**ug**	**SW846 7470A**	**04/10/06**	**H2HV71AA**
		Dilution Factor: 1.75		Analysis Time..: 16:13	MDL.....: 0.10	
Prep Batch #...: 6111407						
Mercury	**8.8**	**0.70**	**ug**	**SW846 7470A**	**04/24/06**	**H2HV72AA**
		Dilution Factor: 3.5		Analysis Time..: 14:48	MDL.....: 0.21	

STL Knoxville - ACS

Client Sample ID: G-2959/2960/2964/2965/2970/2971-R1 M29 BLANK FRONT HALF

TOTAL Metals

Lot-Sample #...: H6D030224-006 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	**74.0**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81AA**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 11.0	
Antimony	**2.7 B**	**6.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81AE**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AH
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.35	
Barium	**1.8 B**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81AL**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV81AP
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.18	
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV81AT
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.50	
Chromium	**0.40 B**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81AW**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV81A1
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.50	
Copper	**1.2 B**	**2.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81A4**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.70	
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81A7
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.37	
Manganese	**0.69 B**	**1.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81CA**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.18	
Nickel	**3.7 B**	**4.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81CE**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.44	
Selenium	**2.0**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81CH**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-2959/2960/2964/2965/2970/2971-R1 M29 BLANK FRONT HALF

TOTAL Metals

Lot-Sample #...: H6D030224-006 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CL
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.97	
Thallium	**9.1**	**3.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81CP**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 3.5	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CT
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.50	
Zinc	**4.9**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HV81CW**
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.38	

Prep Batch #...: 6097037

Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HV81C1
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 0.060	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2961/2966/2972-R1 M29 BLANK BACK HALF

TOTAL Metals

Lot-Sample #...: H6D030224-007 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AA
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AE
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AH
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.33	
Barium	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AL
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWF1AP
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.18	
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWF1AT
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.082	
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AW
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1A1
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.50	
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2HWF1A4
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.70	
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1A7
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.37	
Manganese	ND	1.5	ug	SW846 6010B	04/05-04/10/06	H2HWF1CA
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.18	
Nickel	ND	4.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CE
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.40	
Selenium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CH
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-2961/2966/2972-R1 M29 BLANK BACK HALF

TOTAL Metals

Lot-Sample #...: H6D030224-007 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CL
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HWF1CP
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CT
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.50	
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CW
		Dilution Factor: 1		Analysis Time..: 15:48	MDL.....: 0.45	

Prep Batch #...: 6097038

Mercury	ND	0.40	ug	SW846 7470A	04/10/06	H2HWF1C1
		Dilution Factor: 2		Analysis Time..: 16:57	MDL.....: 0.12	

STL Knoxville - ACS

Client Sample ID: G-3163/2967/2973-R1 M29 BLANK EMPTY IMPINGER

TOTAL Metals

Lot-Sample #...: H6D030224-008 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097038						
Mercury	ND	0.40	ug	SW846 7470A	04/10/06	H2HWL1AA
		Dilution Factor: 2		Analysis Time..: 17:09	MDL.....: 0.12	

STL Knoxville - ACS

Client Sample ID: G-2962/2968/2974-R1 M29 BLANK KMNO4 IMPINGER

TOTAL Metals

Lot-Sample #...: H6D030224-009 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	ND	0.040	ug	SW846 7470A	04/10/06	H2HWN1AA
		Dilution Factor: 0.2		Analysis Time..: 16:23	MDL.....: 0.012	

STL Knoxville - ACS

Client Sample ID: G-2963/2969/2975-R1 M29 BLANK HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-010 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	ND	0.15	ug	SW846 7470A	04/10/06	H2HWP1AA
		Dilution Factor: 0.75		Analysis Time..: 16:29	MDL.....: 0.045	

STL Knoxville - ACS

Client Sample ID: G-3057/3058-R2-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-011 **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	**84.8**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AA**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 11.0	
Antimony	**3.4 B**	**6.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AC**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 1.4	
Arsenic	**2.4**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AD**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.35	
Barium	**5.1 B**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AE**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AF
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.18	
Cadmium	**5.7**	**0.50**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AG**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.50	
Chromium	**18.0**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AH**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AJ
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.50	
Copper	**100**	**2.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AK**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.70	
Lead	**233**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AL**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.37	
Manganese	**37.8**	**1.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AM**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.18	
Nickel	**8.4**	**4.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AN**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.44	
Selenium	**2.4**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AP**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-3057/3058-R2-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-011 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	**1.2 B**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AQ**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.97	
Thallium	**9.6**	**3.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AR**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 3.5	
Vanadium	**1.1 B**	**5.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AT**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.50	
Zinc	**117**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWQ1AU**
		Dilution Factor: 1		Analysis Time..: 17:39	MDL.....: 0.38	

Prep Batch #...: 6097037

Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HWQ1AV
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....: 0.060	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3059-R2-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-012 **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	**38.4**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AA**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AC
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AD
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.33	
Barium	**3.9 B**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AE**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWT1AF
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.18	
Cadmium	**2.2**	**0.50**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AG**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.082	
Chromium	**2.2**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AH**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AJ
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.50	
Copper	**8.1**	**2.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AK**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.70	
Lead	**17.4**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AL**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.37	
Manganese	**4.2**	**1.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AM**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.18	
Nickel	**3.0 B**	**4.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AN**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.40	
Selenium	**1.6**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AP**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-3059-R2-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-012 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	**4.5**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AQ**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HWT1AR
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AT
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.50	
Zinc	**19.2**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HWT1AU**
		Dilution Factor: 1		Analysis Time..: 16:25	MDL.....: 0.45	

Prep Batch #...: 6097038

Mercury	**1.7**	**0.40**	**ug**	**SW846 7470A**	**04/10/06**	**H2HWT1AV**
		Dilution Factor: 2		Analysis Time..: 17:15	MDL.....: 0.12	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3060-R2-METHOD 0060/29 EMPTY IMPINGER #4

TOTAL Metals

Lot-Sample #...: H6D030224-013 **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097038						
Mercury	ND	0.80	ug	SW846 7470A	04/10/06	H2HWV1AA
		Dilution Factor: 4		Analysis Time..: 17:19	MDL.....: 0.24	

STL Knoxville - ACS

Client Sample ID: G-3061-R2-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-014 **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	**0.69**	**0.18**	**ug**	**SW846 7470A**	**04/10/06**	**H2HW01AA**
		Dilution Factor: 0.9		Analysis Time..: 16:35	MDL.....: 0.054	

STL Knoxville - ACS

Client Sample ID: G-3062-R2-METHOD 0060/29 8N HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-015 **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	**8.6**	**0.35**	**ug**	**SW846 7470A**	**04/10/06**	**H2HW21AA**
		Dilution Factor: 1.75		Analysis Time..: 16:37	MDL.....: 0.10	

STL Knoxville - ACS

Client Sample ID: G-3141/3142-R3-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-016 **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	**92.8**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AA**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 11.0	
Antimony	**3.5 B**	**6.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AC**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 1.4	
Arsenic	**3.4**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AD**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.35	
Barium	**5.4 B**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AE**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW41AF
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.18	
Cadmium	**9.0**	**0.50**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AG**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.50	
Chromium	**35.4**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AH**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AJ
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.50	
Copper	**109**	**2.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AK**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.70	
Lead	**690**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AL**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.37	
Manganese	**39.4**	**1.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AM**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.18	
Nickel	**8.4**	**4.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AN**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.44	
Selenium	**3.1**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AP**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-3141/3142-R3-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-016 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AQ
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.97	
Thallium	**9.7**	**3.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AR**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 3.5	
Vanadium	**1.5 B**	**5.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AT**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.50	
Zinc	**126**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW41AU**
		Dilution Factor: 1		Analysis Time..: 17:51	MDL.....: 0.38	

Prep Batch #...: 6097037

Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HW41AV
		Dilution Factor: 1		Analysis Time..: 16:04	MDL.....: 0.060	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3143-R3-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-017 **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	**32.4**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AA**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AC
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AD
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.33	
Barium	**5.4 B**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AE**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW51AF
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.18	
Cadmium	**0.71**	**0.50**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AG**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.082	
Chromium	**1.1**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AH**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AJ
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.50	
Copper	**3.4**	**2.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AK**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.70	
Lead	**4.2**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AL**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.37	
Manganese	**2.0**	**1.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AM**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.18	
Nickel	**1.0 B**	**4.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AN**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.40	
Selenium	**0.84 B**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AP**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.43	

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STL Knoxville - ACS

Client Sample ID: G-3143-R3-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-017 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AQ
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HW51AR
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AT
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.50	
Zinc	**7.3**	**2.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HW51AU**
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 0.45	

Prep Batch #...: 6097038

Mercury	**4.3**	**0.40**	**ug**	**SW846 7470A**	**04/10/06**	**H2HW51AV**
		Dilution Factor: 2		Analysis Time..: 17:21	MDL.....: 0.12	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3144-R3-METHOD 0060/29 EMPTY IMPINGER #4

TOTAL Metals

Lot-Sample #...: H6D030224-018 **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097038						
Mercury	ND	0.48	ug	SW846 7470A	04/10/06	H2HW61AA
		Dilution Factor: 2.4		Analysis Time..: 17:25	MDL.....: 0.14	

STL Knoxville - ACS

Client Sample ID: G-3145-R3-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-019 **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	**3.3**	**0.19**	**ug**	**SW846 7470A**	**04/10/06**	**H2HW71AA**
		Dilution Factor: 0.97		Analysis Time..: 16:43	MDL.....: 0.058	

STL Knoxville - ACS

Client Sample ID: G-3146-R3-METHOD 0060/29 8N HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-020 **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	**6.9**	**0.32**	**ug**	**SW846 7470A**	**04/10/06**	**H2HW81AA**
		Dilution Factor: 1.6		Analysis Time..: 16:46	MDL.....: 0.096	

STL Knoxville - ACS

Client Sample ID: A-5383 MEDIA CHECK

TOTAL Metals

Lot-Sample #...: H6D030224-021 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	**71.2**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HXA1AA**
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 11.0	
Antimony	**3.0 B**	**6.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HXA1AC**
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AD
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.35	
Barium	**1.9 B**	**20.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HXA1AE**
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HXA1AF
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.18	
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HXA1AG
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.50	
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AH
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AJ
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.50	
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2HXA1AK
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.70	
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AL
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.37	
Manganese	**0.37 B**	**1.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HXA1AM**
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.18	
Nickel	**3.6 B**	**4.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HXA1AN**
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.44	
Selenium	**1.9**	**1.0**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HXA1AP**
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: A-5383 MEDIA CHECK

TOTAL Metals

Lot-Sample #...: H6D030224-021 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AQ
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.97	
Thallium	**9.8**	**3.5**	**ug**	**SW846 6010B**	**04/05-04/10/06**	**H2HXA1AR**
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 3.5	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AT
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.50	
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AU
		Dilution Factor: 1		Analysis Time..: 18:03	MDL.....: 0.38	

NOTE(S):

B Estimated result. Result is less than RL.

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates TCO/G

Lot #: H6D030231

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 25, 2006

ANALYTICAL METHODS SUMMARY

H6D030231

PARAMETER	ANALYTICAL METHOD
Gravimetric Analysis (GRA V)	EPA-18 GRAV
Total Chromatographable O rganics (TCO) Analysis	EPA-18 TCO

References:

EPA-18 "GUIDANCE FOR TOTAL ORGANICS," EPA/600/R-96/033, MARCH 1996.

SAMPLE SUMMARY

H6D030231

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H0E	001	G-2931/2932-R1-MM5 FRONT HALF COMPOSITE TRAIN C	03/28/06	
H2H0G	002	G-2933/2934-R1-MM5 BACK HALF COMPOSITE TRAIN C	03/28/06	
H2H0H	003	G-2935/2936-R1-MM5 IMPINGER COMPOSITE TRAIN C	03/28/06	
H2H0J	004	G-3043/3044-R2-MM5 FRONT HALF COMPOSITE TRAIN C	03/29/06	
H2H0M	005	G-3045/3046-R2-MM5 BACK HALF COMPOSITE TRAIN C	03/29/06	
H2H0N	006	G-3047/3048-R2-MM5 IMPINGER COMPOSITE TRAIN C	03/29/06	
H2H0R	007	G-3115/3116-R3-MM5 FRONT HALF COMPOSITE TRAIN C	03/30/06	
H2H0W	008	G-3117/3118-R3-MM5 BACK HALF COMPOSITE TRAIN C	03/30/06	
H2H0X	009	G-3119/3120-R3-MM5 IMPINGER COMPOSITE TRAIN C	03/30/06	
H2H00	010	G-3121/3122-R3-MM5 FRONT HALF COMPOSITE BT C	03/29/06	
H2H01	011	G-3123/3124-R3-MM5 BACK HALF COMPOSITE BT C	03/29/06	
H2H02	012	G-3125/3126-R3-MM5 IMPINGER COMPOSITE BT C	03/29/06	
H2H03	013	G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB	03/30/06	
H2H05	014	A-5380 MEDIA CHECK XAD	03/28/06	
H2H06	015	A-5382 MEDIA CHECK FILTER	03/28/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030231

The results reported herein are applicable to the samples submitted for analysis only.

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The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

TCO/GRAV Sampling Train Preparation and Analysis

The semi-volatile organic sampling train components were extracted and analyzed for total chromatographable organics (TCO) and total gravimetric organics (GRAV) using STL Knoxville standard operating procedures KNOX-OP-0009 and KNOX-GC-0010, based on the following methods:

- SW-846 3542, "Extraction of Semivolatile Analytes Collected Using Method 0010 (Modified Method 5 Sampling Train)"
- SW-846 8015B, "Nonhalogenated Organics Using GC/FID"
- U.S. EPA "Guidance for Total Organics" (1996)

The sampling trains are prepared as three analytical fractions: The particulate filter and front half of the filter holder, nozzle and probe solvent rinses are combined as one sample. The XAD-2 resin trap and back half of the filter holder, coil condenser and

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PROJECT NARRATIVE
H6D030231

connecting glassware solvent rinses are combined as a separate sample. The condensate, impinger contents and their related glassware solvent rinses make up a third sample.

The filters and XAD components are spiked with the TCO surrogates and the components are Soxhlet extracted with methylene chloride. The condensates are spiked with the surrogates and extracted using a continuous liquid-liquid extractor. The extracts are concentrated to 10 mL and split in half with one portion for TCO analysis and the other for GRAV analysis.

Gas chromatography is used to determine the concentration of total chromatographable organics in the extracts. Detection, identification and quantification of the semi-volatile organic target analytes is done using a gas chromatograph with a flame ionization detector (GC/FID). This technique is non-specific in that all co-extracted organic compounds that elute between n-heptane and n-heptadecane, and render a flame ionization detector response, are detected. This range of elution approximately corresponds to the boiling range of 100°C to 300°C. The surrogate compound, n-heptadecane, is used to quantify sample recovery. Another surrogate compound, n-heptane, is also added to every sample, and the two surrogates are used to define the retention time window for TCO.

Total gravimetric organics are determined by evaporating a filtered portion of the sample extract at room temperature and determining the residue weight by difference. Residues having a boiling point of approximately 300°C and higher are determined by this procedure.

The preparation and analysis of method blanks is used to evaluate background response. Results are blank corrected by subtraction of the laboratory method blank result. The preparation and analysis of laboratory control samples are used to monitor test method performance. Gravimetric audit samples provide additional measurement of accuracy and precision for the gravimetric part of the test method.

TCO extract concentrations are calculated from peak areas as compared to a five point calibration curve. Sample results are calculated using the following equations:

$$\text{TCO Result, mg} = (\text{Extract concentration, mg / L}) * \text{Volume final extract, L} * \left(\frac{\text{Total Sample Volume, L}}{\text{Volume Sample Extracted, L}} \right)$$

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PROJECT NARRATIVE
H6D030231

$$\text{GRAV Result, mg} = (\text{Average Weight Sample and Beaker, mg} - \text{Beaker Tare Weight, mg}) * \text{SF} * \left(\frac{\text{Total Sample Volume, L}}{\text{Volume Sample Extracted, L}}\right)$$

Where: SF = Split Factor = $\left(\frac{\text{Volume Final Extract, mL}}{\text{Volume GRAV Extract, mL}}\right)$, which is typically 10 mL/5 mL.

Note: The term $\left(\frac{\text{Total Sample Volume, L}}{\text{Volume Sample Extracted, L}}\right) = 1$ for all non-aqueous samples and is used when the volume of condensate exceeds one liter.
All sample results for TCO and GRAV are blank corrected using the following equation:

$$\text{Final Result, } mg = (Sample\ \text{Re}\,sult, mg - Method\ Blank\ \text{Re}\,sult, mg)$$

A dilution factor was applied to the condensate portion of the analysis due to the initial volume of sample extracted. Only a portion of the total volume of condensate was used for this analysis. The dilution was used to properly adjust the results and reporting limits for the total amount of sample.

During review of the data, it appears that some of the Run 3 and Run 3 Blank Train samples may have been switched. The largest discrepancies appear for the condensate and filter fractions of the TCO analysis. However, this was not consistent with the GRAV analysis because the values were much lower.

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Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2931/2932-R1-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-001
Date Sampled...: 03/28/06
Prep Date.....: 04/05/06
Prep Batch #...: 6095031
Dilution Factor: 1

Work Order #...: H2H0E1AA
Date Received..: 04/02/06
Analysis Date..: 04/16/06

Matrix.....: AIR

Method.....: EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	0.34	0.050	mg	0.0050

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	89	(50 - 150)

STL Knoxville - ACS

Client Sample ID: G-2933/2934-R1-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-002
Date Sampled...: 03/28/06
Prep Date.....: 04/05/06
Prep Batch #...: 6095032
Dilution Factor: 10

Work Order #...: H2H0G1AA
Date Received..: 04/02/06
Analysis Date..: 04/16/06
Method.....: EPA-18 TCO

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	4.0 B	0.50	mg	0.050

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	NC,DIL	(50 - 150)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2935/2936-R1-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-003 Work Order #...: H2H0H1AA Matrix.....: AIR
Date Sampled...: 03/28/06 Date Received..: 04/02/06
Prep Date.....: 04/05/06 Analysis Date..: 04/16/06
Prep Batch #...: 6095033
Dilution Factor: 2.53 Method.....: EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	0.98 B	0.13	mg	0.018

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	92	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3043/3044-R2-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-004 **Work Order #...:** H2H0J1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.23**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	81	(50 - 150)

STL Knoxville - ACS

Client Sample ID: G-3045/3046-R2-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-005	**Work Order #...:**	H2H0M1AA	**Matrix.....:**	AIR
Date Sampled...:	03/29/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/16/06		
Prep Batch #...:	6095032				
Dilution Factor:	5	**Method.....:**	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.4 B**	**0.25**	**mg**	**0.025**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	86	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3047/3048-R2-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-006	**Work Order #...:**	H2H0N1AA	**Matrix.....:**	AIR
Date Sampled...:	03/29/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/16/06		
Prep Batch #...:	6095033				
Dilution Factor:	2.24	**Method.....:**	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.2 B**	**0.11**	**mg**	**0.016**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	107	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3115/3116-R3-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-007 **Work Order #...:** H2H0R1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.077**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	87	(50 - 150)

STL Knoxville - ACS

Client Sample ID: G-3117/3118-R3-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-008	Work Order #...:	H2H0W1AA	Matrix.....:	AIR
Date Sampled...:	03/30/06	Date Received..:	04/02/06		
Prep Date.....:	04/05/06	Analysis Date..:	04/16/06		
Prep Batch #...:	6095032				
Dilution Factor:	3	Method.....:	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	1.8 B	0.15	mg	0.015

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	101	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3119/3120-R3-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-009	**Work Order #...:**	H2H0X1AA	**Matrix.....:**	AIR
Date Sampled...:	03/30/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/16/06		
Prep Batch #...:	6095033				
Dilution Factor:	2.32	**Method.....:**	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.047 J,B**	**0.12**	**mg**	**0.016**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	105	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3121/3122-R3-MM5 FRONT HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...:	H6D030231-010	**Work Order #...:**	H2H001AA	**Matrix.....:**	AIR
Date Sampled...:	03/29/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/16/06		
Prep Batch #...:	6095031				
Dilution Factor:	1	**Method.....:**	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.22**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	89	(50 - 150)

STL Knoxville - ACS

Client Sample ID: G-3123/3124-R3-MM5 BACK HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...:	H6D030231-011	**Work Order #...:**	H2H011AA	**Matrix.....:**	AIR
Date Sampled...:	03/29/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/16/06		
Prep Batch #...:	6095032				
Dilution Factor:	3	**Method.....:**	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.1 B**	**0.15**	**mg**	**0.015**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	93	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3125/3126-R3-MM5 IMPINGER COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...:	H6D030231-012	**Work Order #...:**	H2H021AA	**Matrix.....:**	AIR
Date Sampled...:	03/29/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/16/06		
Prep Batch #...:	6095033				
Dilution Factor:	1	**Method.....:**	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.49 B**	**0.050**	**mg**	**0.0070**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	99	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB

GC Semivolatiles

Lot-Sample #...:	H6D030231-013	**Work Order #...:**	H2H031AA	**Matrix.....:**	AIR
Date Sampled...:	03/30/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/16/06		
Prep Batch #...:	6095032				
Dilution Factor:	1	**Method.....:**	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.15 B**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	104	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: A-5380 MEDIA CHECK XAD

GC Semivolatiles

Lot-Sample #...: H6D030231-014 **Work Order #...:** H2H051AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095032
Dilution Factor: 1 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	ND	0.050	mg	0.0050

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	106	(50 - 150)

STL Knoxville - ACS

Client Sample ID: A-5382 MEDIA CHECK FILTER

GC Semivolatiles

Lot-Sample #...:	H6D030231-015	**Work Order #...:**	H2H061AA	**Matrix.....:**	AIR
Date Sampled...:	03/28/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/16/06		
Prep Batch #...:	6095031				
Dilution Factor:	1	**Method.....:**	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.0060 J**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	97	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2931/2932-R1-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-001	**Work Order #...:**	H2H0E1AC	**Matrix.....:**	AIR
Date Sampled...:	03/28/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/23/06		
Prep Batch #...:	6095034				
Dilution Factor:	1	**Method.....:**	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**0.47 J,B**	**0.50**	**mg**	**0.18**

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2933/2934-R1-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-002	**Work Order #...:**	H2H0G1AC	**Matrix.....:**	AIR
Date Sampled...:	03/28/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/23/06		
Prep Batch #...:	6095035				
Dilution Factor:	1	**Method.....:**	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**1.9 B**	**0.50**	**mg**	**0.25**

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2935/2936-R1-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-003 Work Order #...: H2H0H1AC Matrix.....: AIR
Date Sampled...: 03/28/06 Date Received..: 04/02/06
Prep Date.....: 04/05/06 Analysis Date..: 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 2.53 Method.....: EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	0.68 J	1.3	mg	0.63

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3043/3044-R2-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-004	Work Order #...:	H2H0J1AC	Matrix.....:	AIR
Date Sampled...:	03/29/06	Date Received..:	04/02/06		
Prep Date.....:	04/05/06	Analysis Date..:	04/23/06		
Prep Batch #...:	6095034				
Dilution Factor:	1	Method.....:	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	0.40 J,B	0.50	mg	0.18

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3045/3046-R2-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-005 Work Order #...: H2H0M1AC Matrix.....: AIR
Date Sampled...: 03/29/06 Date Received..: 04/02/06
Prep Date.....: 04/05/06 Analysis Date..: 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1 Method.....: EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	1.3 B	0.50	mg	0.25

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3047/3048-R2-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-006 **Work Order #...:** H2H0N1AC **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 2.24 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	1.1	mg	0.56

STL Knoxville - ACS

Client Sample ID: G-3115/3116-R3-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-007	**Work Order #...:**	H2H0R1AC	**Matrix.....:**	AIR
Date Sampled...:	03/30/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/23/06		
Prep Batch #...:	6095034				
Dilution Factor:	1	**Method.....:**	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**0.47 J,B**	**0.50**	**mg**	**0.18**

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3117/3118-R3-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-008 Work Order #...: H2H0W1AC Matrix.....: AIR
Date Sampled...: 03/30/06 Date Received..: 04/02/06
Prep Date.....: 04/05/06 Analysis Date..: 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1 Method.....: EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	1.2 B	0.50	mg	0.25

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3119/3120-R3-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-009 **Work Order #...:** H2H0X1AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 2.32 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	1.2	mg	0.58

STL Knoxville - ACS

Client Sample ID: G-3121/3122-R3-MM5 FRONT HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...:	H6D030231-010	Work Order #...:	H2H001AC	Matrix.....:	AIR
Date Sampled...:	03/29/06	Date Received..:	04/02/06		
Prep Date.....:	04/05/06	Analysis Date..:	04/23/06		
Prep Batch #...:	6095034				
Dilution Factor:	1	Method.....:	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	0.33 J,B	0.50	mg	0.18

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3123/3124-R3-MM5 BACK HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...:	H6D030231-011	**Work Order #...:**	H2H011AC	**Matrix.....:**	AIR
Date Sampled...:	03/29/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/23/06		
Prep Batch #...:	6095035				
Dilution Factor:	1	**Method.....:**	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	1.0 B	0.50	mg	0.25

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3125/3126-R3-MM5 IMPINGER COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-012 **Work Order #...:** H2H021AC **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 1 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	0.50	mg	0.25

STL Knoxville - ACS

Client Sample ID: G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB

GC Semivolatiles

Lot-Sample #...: H6D030231-013 **Work Order #...:** H2H031AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	0.50	mg	0.25

STL Knoxville - ACS

Client Sample ID: A-5380 MEDIA CHECK XAD

GC Semivolatiles

Lot-Sample #...: H6D030231-014 **Work Order #...:** H2H051AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	0.50	mg	0.25

STL Knoxville - ACS

Client Sample ID: A-5382 MEDIA CHECK FILTER

GC Semivolatiles

Lot-Sample #...:	H6D030231-015	**Work Order #...:**	H2H061AC	**Matrix.....:**	AIR
Date Sampled...:	03/28/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/23/06		
Prep Batch #...:	6095034				
Dilution Factor:	1	**Method.....:**	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**0.33 J,B**	**0.50**	**mg**	**0.18**

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 8290

Lot #: H6D030236

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

May 9, 2006

ANALYTICAL METHODS SUMMARY

H6D030236

PARAMETER	ANALYTICAL METHOD
0023A Airtrains 8290	SW846 0023A/8290

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030236

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H1D	001	G-2937/2938-R1-M23A FRONT HALF COMPOSITE TRAIN D	03/28/06	
H2H1F	002	G-2939/2940-R1-M23A BACK HALF COMPOSITE TRAIN D	03/28/06	
H2H1G	003	G-3049/3050-R2-M23A FRONT HALF COMPOSITE TRAIN D	03/29/06	
H2H1J	004	G-3051/3052-R2-M23A BACK HALF COMPOSITE TRAIN D	03/29/06	
H2H1K	005	G-3128/3129-R3-M23A FRONT HALF COMPOSITE TRAIN D	03/30/06	
H2H1L	006	G-3130/3131-R3-M23A BACK HALF COMPOSITE TRAIN D	03/30/06	
H2H1N	007	G-3132/3133-R3-M23A FRONT HALF COMPOSITE BLANK TRAIN D	03/30/06	
H2H1P	008	G-3134/3135-R3-M23A BACK HALF COMPOSITE BLANK TRAIN D	03/30/06	
H2H1Q	009	G-3136-R3-M23A TRAIN D XAD-2 RESIN TUBE TB/RB	03/30/06	
H2H1W	010	A-5379 MEDIA CHECK XAD	03/28/06	
H2H1X	011	A-5381 MEDIA CHECK FILTER	03/28/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030236

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

The sample ID on the chain of custody documentation is G-3136-R3-M23A $MeCl_2$ RB/TB, the sample ID should be G-3136-R3-M23A XAD-2 Resin Tube.

Custody seals were not present upon sample receipt at STL Knoxville; however, samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met, and the test results shown in this report meet all applicable NELAC requirements.

QC Batch 6107079

All QC criteria were met.

Comment:

All positive 2378-TCDF results at or above the minimum level were confirmed on a DB-225 column.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H6D030236

QC Batch 6107092

All QC criteria were met.

The following flags are used to qualify results for chlorinated dioxin and furan results:

J – The reported result is an estimate. The amount reported is below the Minimum Level (ML). The qualitative definition of the ML is "the lowest level at which the analytical system must give a reliable signal and an acceptable calibration point". The ML was introduced in EPA Methods 1624 and 1625 in 1980 and was promulgated in these methods in 1984 at 40 CFR Part 136, Appendix A. For the purposes of this report the ML is qualitatively defined as described above, and quantitatively defined as follows: **Minimum Level:** The concentration or mass of analyte in the sample that corresponds to the lowest calibration level in the initial calibration. It represents a concentration (in the sample extract) equivalent to that of the lowest calibration standard, after corrections for method-specified sample weights, volumes and cleanup procedures has been employed.

Example: The lowest calibration level for TCDD in the initial calibration is 0.5 pg/uL. A mass of 10 pg of 2,3,7,8-TCDD in the sample would result in a concentration of 0.5 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the lowest calibration standard, the 10 pg mass in the sample components is the ML. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The ML for 2,3,7,8-TCDD becomes 100 pg rather than the default of 10 pg.

E – The reported result is an estimate. The amount reported is above the UCL described below.
The E qualifier is applied on the basis of the **Upper Calibration Level (UCL)**. The quantitative definition of the UCL is listed below:
Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is

PROJECT NARRATIVE
H6D030236

equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

Example:
The maximum calibration level for TCDD in the initial calibration is 200 pg/uL. A mass of 4000 pg of 2,3,7,8-TCDD in the sampling components would result in a concentration of 200 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the highest calibration standard, the 4000 pg mass in the sample components is the UCL. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example:
A 1/10 dilution is performed on the sample extract described above. The UCL for 2,3,7,8-TCDD becomes 40,000 pg rather than the default of 4000 pg. In this examples all positive 2,3,7,8-TCDD results above 40,000 pg are flagged with an E.

B – The analyte is present in the associated method blank at a reportable level. For this analysis, there is no method specified reporting level, other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of 2.5-to-1. Therefore, the presence of any amount of the analyte present in the blank will result a B qualifier on all associated samples.
If the blank has analytes present above the ML (described above) the need for corrective action beyond qualifying the associated data is evaluated. The determination is made whether the amount in the blank is less than 5% of the lowest amount in associated client samples or regulatory limit. If this is the case, sample processing may continue with the qualification of the data. If the amount in the blank is greater than 5% of the lowest amount in associated client samples or regulatory limit, corrective action must be taken.
The corrective actions may include extracting a second aliquot of sample if available, or notifying the client to assess the impact on the project objectives.
Note: Some laboratories do not report contamination in the blank unless it is above their lower calibration limit, or an established percentage of the level in the

PROJECT NARRATIVE
H6D030236

samples, or an established percentage of the regulatory limit. Likewise, some laboratories set a reporting limit at one half the lower calibration limit.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. The criteria include the following areas:

- Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio.)
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).
- Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.
- Polychlorinated dibenzofuran purity. No peak can be identified as a polychlorinated dibenzofuran if a polychlorinated diphenyl ether peak maximizes within +/- 2 seconds of the furan candidate.

S – Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicate a temporary suppression of the instrument sensitivity, due to a matrix-borne interference.

C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer

X – Other. See explanation in narrative.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Sample ID: G-2937/2938-R1-M23A FRONT HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 001	**Work Order #....:**	H2H1D1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	2.5	pg/sampl
Total TCDD	**4.0**	**Q J**	**10**	**2.5**	**pg/sampl**
1,2,3,7,8-PeCDD	ND		50	1.5	pg/sampl
Total PeCDD	**8.2**	**Q J**	**50**	**1.5**	**pg/sampl**
1,2,3,4,7,8-HxCDD	ND		50	1.2	pg/sampl
1,2,3,6,7,8-HxCDD	ND		50	1.2	pg/sampl
1,2,3,7,8,9-HxCDD	ND		50	1.1	pg/sampl
Total HxCDD	**6.3**	**Q J**	**50**	**1.2**	**pg/sampl**
1,2,3,4,6,7,8-HpCDD	**6.7**	**J**	**50**	**2.2**	**pg/sampl**
Total HpCDD	**11**	**J**	**50**	**2.2**	**pg/sampl**
OCDD	**22**	**Q B J**	**100**	**2.0**	**pg/sampl**
2,3,7,8-TCDF	**2.4**	**Q J**	**10**	**2.2**	**pg/sampl**
Total TCDF	**15**	**Q J**	**10**	**2.2**	**pg/sampl**
1,2,3,7,8-PeCDF	**3.3**	**Q J**	**50**	**1.2**	**pg/sampl**
2,3,4,7,8-PeCDF	**2.9**	**Q J**	**50**	**1.1**	**pg/sampl**
Total PeCDF	**29**	**J Q**	**50**	**1.2**	**pg/sampl**
1,2,3,4,7,8-HxCDF	**5.7**	**Q J**	**50**	**1.1**	**pg/sampl**
1,2,3,6,7,8-HxCDF	**3.7**	**Q J**	**50**	**1.0**	**pg/sampl**
2,3,4,6,7,8-HxCDF	**2.7**	**B J**	**50**	**1.1**	**pg/sampl**
1,2,3,7,8,9-HxCDF	ND		50	1.2	pg/sampl
Total HxCDF	**21**	**Q J B**	**50**	**1.1**	**pg/sampl**
1,2,3,4,6,7,8-HpCDF	**8.0**	**Q B J**	**50**	**1.9**	**pg/sampl**
1,2,3,4,7,8,9-HpCDF	ND		50	2.3	pg/sampl
Total HpCDF	**8.0**	**Q B J**	**50**	**2.1**	**pg/sampl**
OCDF	**8.5**	**Q B J**	**100**	**2.5**	**pg/sampl**

STL Knoxville - ACS

Sample ID: G-2937/2938-R1-M23A FRONT HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 001	**Work Order #....:**	H2H1D1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	103	40 - 135
13C-1,2,3,7,8-PeCDD	120	40 - 135
13C-1,2,3,6,7,8-HxCDD	103	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	112	40 - 135
13C-OCDD	107	40 - 135
13C-2,3,7,8-TCDF	100	40 - 135
13C-1,2,3,7,8-PeCDF	120	40 - 135
13C-1,2,3,6,7,8-HxCDF	104	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	101	40 - 135

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	88	70 - 130
13C-1,2,3,4,7,8-HxCDD	101	70 - 130
13C-2,3,4,7,8-PeCDF	90	70 - 130
13C-1,2,3,4,7,8-HxCDF	85	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	90	70 - 130

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-2939/2940-R1-M23A BACK HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 002	**Work Order #....:**	H2H1F1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	19	Q	10	3.6	pg/sampl
Total TCDD	1700	Q	10	3.6	pg/sampl
1,2,3,7,8-PeCDD	33	J	50	1.3	pg/sampl
Total PeCDD	580	Q	50	1.3	pg/sampl
1,2,3,4,7,8-HxCDD	11	J	50	1.0	pg/sampl
1,2,3,6,7,8-HxCDD	9.6	J	50	1.0	pg/sampl
1,2,3,7,8,9-HxCDD	16	J	50	0.96	pg/sampl
Total HxCDD	160	Q	50	1.0	pg/sampl
1,2,3,4,6,7,8-HpCDD	24	B J	50	1.0	pg/sampl
Total HpCDD	44	J B	50	1.0	pg/sampl
OCDD	27	B J	100	1.2	pg/sampl
Total TCDF	6000	Q	10	5.5	pg/sampl
1,2,3,7,8-PeCDF	170	Q	50	1.6	pg/sampl
2,3,4,7,8-PeCDF	190		50	1.5	pg/sampl
Total PeCDF	2600	Q	50	1.6	pg/sampl
1,2,3,4,7,8-HxCDF	200	Q	50	1.1	pg/sampl
1,2,3,6,7,8-HxCDF	100		50	1.0	pg/sampl
2,3,4,6,7,8-HxCDF	47	B J	50	1.1	pg/sampl
1,2,3,7,8,9-HxCDF	5.5	B J	50	1.2	pg/sampl
Total HxCDF	830	Q B	50	1.1	pg/sampl
1,2,3,4,6,7,8-HpCDF	150	B	50	1.1	pg/sampl
1,2,3,4,7,8,9-HpCDF	10	Q J	50	1.3	pg/sampl
Total HpCDF	200	B Q	50	1.2	pg/sampl
OCDF	14	B J	100	1.3	pg/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	40 - 135
13C-1,2,3,7,8-PeCDD	98	40 - 135
13C-1,2,3,6,7,8-HxCDD	92	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	102	40 - 135
13C-OCDD	95	40 - 135
13C-2,3,7,8-TCDF	89	40 - 135
13C-1,2,3,7,8-PeCDF	96	40 - 135
13C-1,2,3,6,7,8-HxCDF	98	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	90	40 - 135

STL Knoxville - ACS

Sample ID: G-2939/2940-R1-M23A BACK HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 002	**Work Order #....:**	H2H1F1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	83	70 - 130
13C-1,2,3,4,7,8-HxCDD	97	70 - 130
13C-2,3,4,7,8-PeCDF	91	70 - 130
13C-1,2,3,4,7,8-HxCDF	80	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	82	70 - 130

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-2939/2940-R1-M23A BACK HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 002	**Work Order #....:**	H2H1F1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/08/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M3C	**Method:**	SW846 0023A/8290
Analyst ID....:	Vanhseng (MO) Khounlavong				

Confirmation Run

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDF	**230**	**Q**	**10**	**4.1**	**pg/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDF	97	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3049/3050-R2-M23A FRONT HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 003	**Work Order #....:**	H2H1G1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	2.1	pg/sampl
Total TCDD	ND		10	2.1	pg/sampl
1,2,3,7,8-PeCDD	ND		50	1.1	pg/sampl
Total PeCDD	**1.3**	**Q J**	**50**	**1.1**	**pg/sampl**
1,2,3,4,7,8-HxCDD	ND		50	1.1	pg/sampl
1,2,3,6,7,8-HxCDD	ND		50	1.1	pg/sampl
1,2,3,7,8,9-HxCDD	ND		50	1.0	pg/sampl
Total HxCDD	ND		50	1.1	pg/sampl
1,2,3,4,6,7,8-HpCDD	ND		50	1.2	pg/sampl
Total HpCDD	**2.2**	**Q J**	**50**	**1.2**	**pg/sampl**
OCDD	**17**	**B J**	**100**	**1.5**	**pg/sampl**
2,3,7,8-TCDF	ND		10	1.7	pg/sampl
Total TCDF	ND		10	1.7	pg/sampl
1,2,3,7,8-PeCDF	ND		50	0.86	pg/sampl
2,3,4,7,8-PeCDF	ND		50	0.81	pg/sampl
Total PeCDF	**0.80**	**Q J**	**50**	**0.83**	**pg/sampl**
1,2,3,4,7,8-HxCDF	**2.1**	**Q J**	**50**	**0.76**	**pg/sampl**
1,2,3,6,7,8-HxCDF	**1.6**	**Q J**	**50**	**0.70**	**pg/sampl**
2,3,4,6,7,8-HxCDF	ND		50	0.79	pg/sampl
1,2,3,7,8,9-HxCDF	ND		50	0.85	pg/sampl
Total HxCDF	**5.3**	**J Q**	**50**	**0.77**	**pg/sampl**
1,2,3,4,6,7,8-HpCDF	**3.7**	**Q B J**	**50**	**1.1**	**pg/sampl**
1,2,3,4,7,8,9-HpCDF	ND		50	1.3	pg/sampl
Total HpCDF	**3.7**	**Q B J**	**50**	**1.2**	**pg/sampl**
OCDF	**4.5**	**Q B J**	**100**	**1.4**	**pg/sampl**

STL Knoxville - ACS

Sample ID: G-3049/3050-R2-M23A FRONT HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 003	**Work Order #....:**	H2H1G1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	103	40 - 135
13C-1,2,3,7,8-PeCDD	122	40 - 135
13C-1,2,3,6,7,8-HxCDD	101	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	110	40 - 135
13C-OCDD	96	40 - 135
13C-2,3,7,8-TCDF	96	40 - 135
13C-1,2,3,7,8-PeCDF	116	40 - 135
13C-1,2,3,6,7,8-HxCDF	101	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	99	40 - 135

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	86	70 - 130
13C-1,2,3,4,7,8-HxCDD	102	70 - 130
13C-2,3,4,7,8-PeCDF	92	70 - 130
13C-1,2,3,4,7,8-HxCDF	86	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	91	70 - 130

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3051/3052-R2-M23A BACK HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 004	**Work Order #....:**	H2H1J1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	9.2	Q J	10	2.8	pg/sampl
Total TCDD	500	Q	10	2.8	pg/sampl
1,2,3,7,8-PeCDD	18	J	50	1.4	pg/sampl
Total PeCDD	250	Q	50	1.4	pg/sampl
1,2,3,4,7,8-HxCDD	8.2	J	50	1.1	pg/sampl
1,2,3,6,7,8-HxCDD	8.5	J	50	1.1	pg/sampl
1,2,3,7,8,9-HxCDD	13	J	50	1.0	pg/sampl
Total HxCDD	120	Q J	50	1.1	pg/sampl
1,2,3,4,6,7,8-HpCDD	23	B J	50	1.1	pg/sampl
Total HpCDD	42	J B	50	1.1	pg/sampl
OCDD	24	B J	100	1.1	pg/sampl
Total TCDF	3100	Q	10	3.9	pg/sampl
1,2,3,7,8-PeCDF	140		50	1.5	pg/sampl
2,3,4,7,8-PeCDF	150		50	1.4	pg/sampl
Total PeCDF	2000	Q	50	1.5	pg/sampl
1,2,3,4,7,8-HxCDF	190		50	0.97	pg/sampl
1,2,3,6,7,8-HxCDF	98		50	0.90	pg/sampl
2,3,4,6,7,8-HxCDF	47	B J	50	1.0	pg/sampl
1,2,3,7,8,9-HxCDF	6.0	Q B J	50	1.1	pg/sampl
Total HxCDF	830	B Q	50	0.99	pg/sampl
1,2,3,4,6,7,8-HpCDF	160	B	50	1.2	pg/sampl
1,2,3,4,7,8,9-HpCDF	18	J	50	1.4	pg/sampl
Total HpCDF	230	B	50	1.3	pg/sampl
OCDF	23	B J	100	1.3	pg/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	95	40 - 135
13C-1,2,3,7,8-PeCDD	105	40 - 135
13C-1,2,3,6,7,8-HxCDD	95	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	108	40 - 135
13C-OCDD	97	40 - 135
13C-2,3,7,8-TCDF	91	40 - 135
13C-1,2,3,7,8-PeCDF	101	40 - 135
13C-1,2,3,6,7,8-HxCDF	97	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	91	40 - 135

STL Knoxville - ACS

Sample ID: G-3051/3052-R2-M23A BACK HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 004	**Work Order #....:**	H2H1J1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	84	70 - 130
13C-1,2,3,4,7,8-HxCDD	97	70 - 130
13C-2,3,4,7,8-PeCDF	92	70 - 130
13C-1,2,3,4,7,8-HxCDF	81	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	85	70 - 130

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3051/3052-R2-M23A BACK HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 004	**Work Order #....:**	H2H1J1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/08/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M3C	**Method:**	SW846 0023A/8290
Analyst ID....:	Vanhseng (MO) Khounlavong				

Confirmation Run

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDF	130	Q	10	3.5	pg/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDF	97	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3128/3129-R3-M23A FRONT HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 005	**Work Order #....:**	H2H1K1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	2.9	pg/sampl
Total TCDD	ND		10	2.9	pg/sampl
1,2,3,7,8-PeCDD	ND		50	1.5	pg/sampl
Total PeCDD	ND		50	1.5	pg/sampl
1,2,3,4,7,8-HxCDD	ND		50	1.3	pg/sampl
1,2,3,6,7,8-HxCDD	ND		50	1.3	pg/sampl
1,2,3,7,8,9-HxCDD	ND		50	1.2	pg/sampl
Total HxCDD	ND		50	1.3	pg/sampl
1,2,3,4,6,7,8-HpCDD	**2.2**	**J**	**50**	**1.4**	**pg/sampl**
Total HpCDD	**2.2**	**J**	**50**	**1.4**	**pg/sampl**
OCDD	**18**	**B J**	**100**	**1.7**	**pg/sampl**
2,3,7,8-TCDF	ND		10	2.3	pg/sampl
Total TCDF	ND		10	2.3	pg/sampl
1,2,3,7,8-PeCDF	ND		50	1.2	pg/sampl
2,3,4,7,8-PeCDF	ND		50	1.1	pg/sampl
Total PeCDF	**2.0**	**Q J**	**50**	**1.2**	**pg/sampl**
1,2,3,4,7,8-HxCDF	ND		50	0.92	pg/sampl
1,2,3,6,7,8-HxCDF	ND		50	0.85	pg/sampl
2,3,4,6,7,8-HxCDF	ND		50	0.96	pg/sampl
1,2,3,7,8,9-HxCDF	ND		50	1.0	pg/sampl
Total HxCDF	ND		50	0.93	pg/sampl
1,2,3,4,6,7,8-HpCDF	**3.5**	**Q B J**	**50**	**1.4**	**pg/sampl**
1,2,3,4,7,8,9-HpCDF	ND		50	1.6	pg/sampl
Total HpCDF	**3.5**	**Q B J**	**50**	**1.5**	**pg/sampl**
OCDF	**3.4**	**Q B J**	**100**	**1.3**	**pg/sampl**

STL Knoxville - ACS

Sample ID: G-3128/3129-R3-M23A FRONT HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 005	**Work Order #....:**	H2H1K1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	103	40 - 135
13C-1,2,3,7,8-PeCDD	110	40 - 135
13C-1,2,3,6,7,8-HxCDD	118	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	135	40 - 135
13C-OCDD	122	40 - 135
13C-2,3,7,8-TCDF	98	40 - 135
13C-1,2,3,7,8-PeCDF	107	40 - 135
13C-1,2,3,6,7,8-HxCDF	117	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	116	40 - 135

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	86	70 - 130
13C-1,2,3,4,7,8-HxCDD	103	70 - 130
13C-2,3,4,7,8-PeCDF	91	70 - 130
13C-1,2,3,4,7,8-HxCDF	86	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	92	70 - 130

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3130/3131-R3-M23A BACK HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 006	**Work Order #....:**	H2H1L1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	12	Q	10	2.7	pg/sampl
Total TCDD	410	Q	10	2.7	pg/sampl
1,2,3,7,8-PeCDD	22	J	50	1.3	pg/sampl
Total PeCDD	250	Q	50	1.3	pg/sampl
1,2,3,4,7,8-HxCDD	7.3	Q J	50	1.0	pg/sampl
1,2,3,6,7,8-HxCDD	9.7	Q J	50	1.0	pg/sampl
1,2,3,7,8,9-HxCDD	16	J	50	0.95	pg/sampl
Total HxCDD	130	Q J	50	1.0	pg/sampl
1,2,3,4,6,7,8-HpCDD	26	B J	50	1.4	pg/sampl
Total HpCDD	50	J B	50	1.4	pg/sampl
OCDD	26	B J	100	0.91	pg/sampl
Total TCDF	4000	Q	10	4.4	pg/sampl
1,2,3,7,8-PeCDF	190		50	1.5	pg/sampl
2,3,4,7,8-PeCDF	180		50	1.4	pg/sampl
Total PeCDF	2600		50	1.5	pg/sampl
1,2,3,4,7,8-HxCDF	230		50	0.97	pg/sampl
1,2,3,6,7,8-HxCDF	130		50	0.90	pg/sampl
2,3,4,6,7,8-HxCDF	56	B	50	1.0	pg/sampl
1,2,3,7,8,9-HxCDF	8.4	B J	50	1.1	pg/sampl
Total HxCDF	1100	B	50	0.99	pg/sampl
1,2,3,4,6,7,8-HpCDF	190	B	50	1.1	pg/sampl
1,2,3,4,7,8,9-HpCDF	21	J	50	1.3	pg/sampl
Total HpCDF	280	B	50	1.2	pg/sampl
OCDF	22	B J	100	1.1	pg/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	40 - 135
13C-1,2,3,7,8-PeCDD	102	40 - 135
13C-1,2,3,6,7,8-HxCDD	91	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	97	40 - 135
13C-OCDD	91	40 - 135
13C-2,3,7,8-TCDF	86	40 - 135
13C-1,2,3,7,8-PeCDF	98	40 - 135
13C-1,2,3,6,7,8-HxCDF	94	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	86	40 - 135

STL Knoxville - ACS

Sample ID: G-3130/3131-R3-M23A BACK HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 006	**Work Order #....:**	H2H1L1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	87	70 - 130
13C-1,2,3,4,7,8-HxCDD	101	70 - 130
13C-2,3,4,7,8-PeCDF	96	70 - 130
13C-1,2,3,4,7,8-HxCDF	82	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	84	70 - 130

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3130/3131-R3-M23A BACK HALF COMPOSITE TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 006	**Work Order #....:**	H2H1L1AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/08/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M3C	**Method:**	SW846 0023A/8290
Analyst ID....:	Vanhseng (MO) Khounlavong				

Confirmation Run

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDF	**160**	**Q**	**10**	**4.0**	**pg/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDF	94	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3132/3133-R3-M23A FRONT HALF COMPOSITE BLANK TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 007	**Work Order #....:**	H2H1N1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	2.0	pg/sampl
Total TCDD	ND		10	2.0	pg/sampl
1,2,3,7,8-PeCDD	ND		50	0.91	pg/sampl
Total PeCDD	ND		50	0.91	pg/sampl
1,2,3,4,7,8-HxCDD	ND		50	1.1	pg/sampl
1,2,3,6,7,8-HxCDD	ND		50	1.1	pg/sampl
1,2,3,7,8,9-HxCDD	ND		50	1.0	pg/sampl
Total HxCDD	ND		50	1.1	pg/sampl
1,2,3,4,6,7,8-HpCDD	ND		50	1.4	pg/sampl
Total HpCDD	ND		50	1.4	pg/sampl
OCDD	**20**	**B J**	**100**	**1.6**	**pg/sampl**
2,3,7,8-TCDF	ND		10	1.4	pg/sampl
Total TCDF	ND		10	1.4	pg/sampl
1,2,3,7,8-PeCDF	ND		50	0.68	pg/sampl
2,3,4,7,8-PeCDF	ND		50	0.63	pg/sampl
Total PeCDF	ND		50	0.65	pg/sampl
1,2,3,4,7,8-HxCDF	ND		50	0.55	pg/sampl
1,2,3,6,7,8-HxCDF	ND		50	0.51	pg/sampl
2,3,4,6,7,8-HxCDF	ND		50	0.58	pg/sampl
1,2,3,7,8,9-HxCDF	ND		50	0.62	pg/sampl
Total HxCDF	ND		50	0.56	pg/sampl
1,2,3,4,6,7,8-HpCDF	ND		50	1.1	pg/sampl
1,2,3,4,7,8,9-HpCDF	ND		50	1.3	pg/sampl
Total HpCDF	ND		50	1.2	pg/sampl
OCDF	**2.4**	**Q B J**	**100**	**1.7**	**pg/sampl**

STL Knoxville - ACS

Sample ID: G-3132/3133-R3-M23A FRONT HALF COMPOSITE BLANK TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 007	**Work Order #....:**	H2H1N1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	40 - 135
13C-1,2,3,7,8-PeCDD	113	40 - 135
13C-1,2,3,6,7,8-HxCDD	109	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	113	40 - 135
13C-OCDD	88	40 - 135
13C-2,3,7,8-TCDF	95	40 - 135
13C-1,2,3,7,8-PeCDF	107	40 - 135
13C-1,2,3,6,7,8-HxCDF	134	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	97	40 - 135

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	85	70 - 130
13C-1,2,3,4,7,8-HxCDD	97	70 - 130
13C-2,3,4,7,8-PeCDF	89	70 - 130
13C-1,2,3,4,7,8-HxCDF	80	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	75	70 - 130

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3134/3135-R3-M23A BACK HALF COMPOSITE BLANK TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 008	**Work Order #....:**	H2H1P1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	1.9	pg/sampl
Total TCDD	ND		10	1.9	pg/sampl
1,2,3,7,8-PeCDD	ND		50	0.78	pg/sampl
Total PeCDD	ND		50	0.78	pg/sampl
1,2,3,4,7,8-HxCDD	ND		50	0.65	pg/sampl
1,2,3,6,7,8-HxCDD	ND		50	0.64	pg/sampl
1,2,3,7,8,9-HxCDD	ND		50	0.59	pg/sampl
Total HxCDD	ND		50	0.63	pg/sampl
1,2,3,4,6,7,8-HpCDD	ND		50	0.76	pg/sampl
Total HpCDD	ND		50	0.76	pg/sampl
OCDD	**7.0**	**B J**	**100**	**0.68**	**pg/sampl**
2,3,7,8-TCDF	ND		10	1.4	pg/sampl
Total TCDF	ND		10	1.4	pg/sampl
1,2,3,7,8-PeCDF	ND		50	0.67	pg/sampl
2,3,4,7,8-PeCDF	ND		50	0.63	pg/sampl
Total PeCDF	ND		50	0.65	pg/sampl
1,2,3,4,7,8-HxCDF	ND		50	0.48	pg/sampl
1,2,3,6,7,8-HxCDF	ND		50	0.44	pg/sampl
2,3,4,6,7,8-HxCDF	ND		50	0.50	pg/sampl
1,2,3,7,8,9-HxCDF	ND		50	0.53	pg/sampl
Total HxCDF	ND		50	0.49	pg/sampl
1,2,3,4,6,7,8-HpCDF	ND		50	0.53	pg/sampl
1,2,3,4,7,8,9-HpCDF	ND		50	0.62	pg/sampl
Total HpCDF	ND		50	0.57	pg/sampl
OCDF	ND		100	0.92	pg/sampl

STL Knoxville - ACS

Sample ID: G-3134/3135-R3-M23A BACK HALF COMPOSITE BLANK TRAIN D

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 008	**Work Order #....:**	H2H1P1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	40 - 135
13C-1,2,3,7,8-PeCDD	101	40 - 135
13C-1,2,3,6,7,8-HxCDD	88	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	102	40 - 135
13C-OCDD	97	40 - 135
13C-2,3,7,8-TCDF	85	40 - 135
13C-1,2,3,7,8-PeCDF	97	40 - 135
13C-1,2,3,6,7,8-HxCDF	91	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	87	40 - 135

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	83	70 - 130
13C-1,2,3,4,7,8-HxCDD	97	70 - 130
13C-2,3,4,7,8-PeCDF	93	70 - 130
13C-1,2,3,4,7,8-HxCDF	81	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	82	70 - 130

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3136-R3-M23A TRAIN D XAD-2 RESIN TUBE TB/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 009	**Work Order #....:**	H2H1Q1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	2.2	pg/sampl
Total TCDD	ND		10	2.2	pg/sampl
1,2,3,7,8-PeCDD	ND		50	1.0	pg/sampl
Total PeCDD	ND		50	1.0	pg/sampl
1,2,3,4,7,8-HxCDD	ND		50	0.98	pg/sampl
1,2,3,6,7,8-HxCDD	ND		50	0.97	pg/sampl
1,2,3,7,8,9-HxCDD	ND		50	0.89	pg/sampl
Total HxCDD	**1.4**	**J**	**50**	**0.95**	**pg/sampl**
1,2,3,4,6,7,8-HpCDD	ND		50	0.98	pg/sampl
Total HpCDD	ND		50	0.98	pg/sampl
OCDD	**6.5**	**B J**	**100**	**1.0**	**pg/sampl**
2,3,7,8-TCDF	ND		10	1.9	pg/sampl
Total TCDF	ND		10	1.9	pg/sampl
1,2,3,7,8-PeCDF	ND		50	0.79	pg/sampl
2,3,4,7,8-PeCDF	ND		50	0.74	pg/sampl
Total PeCDF	ND		50	0.77	pg/sampl
1,2,3,4,7,8-HxCDF	ND		50	0.54	pg/sampl
1,2,3,6,7,8-HxCDF	ND		50	0.50	pg/sampl
2,3,4,6,7,8-HxCDF	ND		50	0.57	pg/sampl
1,2,3,7,8,9-HxCDF	ND		50	0.61	pg/sampl
Total HxCDF	ND		50	0.55	pg/sampl
1,2,3,4,6,7,8-HpCDF	ND		50	0.80	pg/sampl
1,2,3,4,7,8,9-HpCDF	ND		50	0.94	pg/sampl
Total HpCDF	ND		50	0.86	pg/sampl
OCDF	ND		100	1.2	pg/sampl

STL Knoxville - ACS

Sample ID: G-3136-R3-M23A TRAIN D XAD-2 RESIN TUBE TB/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 009	**Work Order #....:**	H2H1Q1AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/05/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	95	40 - 135
13C-1,2,3,7,8-PeCDD	109	40 - 135
13C-1,2,3,6,7,8-HxCDD	92	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	109	40 - 135
13C-OCDD	112	40 - 135
13C-2,3,7,8-TCDF	86	40 - 135
13C-1,2,3,7,8-PeCDF	100	40 - 135
13C-1,2,3,6,7,8-HxCDF	95	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	94	40 - 135

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	83	70 - 130
13C-1,2,3,4,7,8-HxCDD	100	70 - 130
13C-2,3,4,7,8-PeCDF	94	70 - 130
13C-1,2,3,4,7,8-HxCDF	80	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	87	70 - 130

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: A-5379 MEDIA CHECK XAD

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 010	**Work Order #....:**	H2H1W1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	2.3	pg/sampl
Total TCDD	ND		10	2.3	pg/sampl
1,2,3,7,8-PeCDD	ND		50	1.0	pg/sampl
Total PeCDD	ND		50	1.0	pg/sampl
1,2,3,4,7,8-HxCDD	ND		50	1.1	pg/sampl
1,2,3,6,7,8-HxCDD	ND		50	1.1	pg/sampl
1,2,3,7,8,9-HxCDD	ND		50	1.0	pg/sampl
Total HxCDD	ND		50	1.1	pg/sampl
1,2,3,4,6,7,8-HpCDD	ND		50	1.2	pg/sampl
Total HpCDD	ND		50	1.2	pg/sampl
OCDD	**13**	**B J**	**100**	**1.3**	**pg/sampl**
2,3,7,8-TCDF	ND		10	1.8	pg/sampl
Total TCDF	ND		10	1.8	pg/sampl
1,2,3,7,8-PeCDF	ND		50	0.77	pg/sampl
2,3,4,7,8-PeCDF	ND		50	0.72	pg/sampl
Total PeCDF	ND		50	0.75	pg/sampl
1,2,3,4,7,8-HxCDF	ND		50	0.74	pg/sampl
1,2,3,6,7,8-HxCDF	ND		50	0.69	pg/sampl
2,3,4,6,7,8-HxCDF	ND		50	0.77	pg/sampl
1,2,3,7,8,9-HxCDF	ND		50	0.83	pg/sampl
Total HxCDF	ND		50	0.75	pg/sampl
1,2,3,4,6,7,8-HpCDF	ND		50	0.79	pg/sampl
1,2,3,4,7,8,9-HpCDF	ND		50	0.93	pg/sampl
Total HpCDF	ND		50	0.86	pg/sampl
OCDF	**2.5**	**Q B J**	**100**	**1.4**	**pg/sampl**

STL Knoxville - ACS

Sample ID: A-5379 MEDIA CHECK XAD

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 010	**Work Order #....:**	H2H1W1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107092				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Bruce F. Wagner				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 135
13C-1,2,3,7,8-PeCDD	95	40 - 135
13C-1,2,3,6,7,8-HxCDD	82	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	92	40 - 135
13C-OCDD	81	40 - 135
13C-2,3,7,8-TCDF	83	40 - 135
13C-1,2,3,7,8-PeCDF	91	40 - 135
13C-1,2,3,6,7,8-HxCDF	75	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	79	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: A-5381 MEDIA CHECK FILTER

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 011	**Work Order #....:**	H2H1X1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	2.0	pg/sampl
Total TCDD	ND		10	2.0	pg/sampl
1,2,3,7,8-PeCDD	ND		50	1.1	pg/sampl
Total PeCDD	ND		50	1.1	pg/sampl
1,2,3,4,7,8-HxCDD	ND		50	0.78	pg/sampl
1,2,3,6,7,8-HxCDD	ND		50	0.78	pg/sampl
1,2,3,7,8,9-HxCDD	ND		50	0.71	pg/sampl
Total HxCDD	ND		50	0.76	pg/sampl
1,2,3,4,6,7,8-HpCDD	ND		50	1.1	pg/sampl
Total HpCDD	ND		50	1.1	pg/sampl
OCDD	**16**	**B J**	**100**	**1.2**	**pg/sampl**
2,3,7,8-TCDF	ND		10	1.6	pg/sampl
Total TCDF	ND		10	1.6	pg/sampl
1,2,3,7,8-PeCDF	ND		50	0.80	pg/sampl
2,3,4,7,8-PeCDF	ND		50	0.75	pg/sampl
Total PeCDF	ND		50	0.78	pg/sampl
1,2,3,4,7,8-HxCDF	ND		50	0.60	pg/sampl
1,2,3,6,7,8-HxCDF	ND		50	0.56	pg/sampl
2,3,4,6,7,8-HxCDF	ND		50	0.63	pg/sampl
1,2,3,7,8,9-HxCDF	ND		50	0.67	pg/sampl
Total HxCDF	ND		50	0.61	pg/sampl
1,2,3,4,6,7,8-HpCDF	ND		50	0.76	pg/sampl
1,2,3,4,7,8,9-HpCDF	ND		50	0.89	pg/sampl
Total HpCDF	ND		50	0.82	pg/sampl
OCDF	**2.8**	**Q B J**	**100**	**1.4**	**pg/sampl**

STL Knoxville - ACS

Sample ID: A-5381 MEDIA CHECK FILTER

Trace Level Organic Compounds

Lot - Sample #....:	H6D030236 - 011	**Work Order #....:**	H2H1X1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/17/06	**Analysis Date....:**	05/04/06		
Prep Batch # ....:	6107079				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	SW846 0023A/8290
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	101	40 - 135
13C-1,2,3,7,8-PeCDD	119	40 - 135
13C-1,2,3,6,7,8-HxCDD	96	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	108	40 - 135
13C-OCDD	94	40 - 135
13C-2,3,7,8-TCDF	96	40 - 135
13C-1,2,3,7,8-PeCDF	104	40 - 135
13C-1,2,3,6,7,8-HxCDF	84	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	94	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates PCB/P

Lot #: H6D030241

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

May 1, 2006

ANALYTICAL METHODS SUMMARY

H6D030241

PARAMETER	ANALYTICAL METHOD
PAHs & Selected SVOCs by HRGC/LRMS	KNOX ID-0016
PCBs, HRGC/HRMS	EPA-22 1668A

References:

EPA-22 "METHOD 1668, REVISION A: CHLORINATED BIPHENYL CONGENERS IN WATER, SOIL, SEDIMENT, AND TISSUE BY HRGC/HRMS" EPA-821-R-00-002 12/99

KNOX Severn Trent Laboratories Knoxville, Facility Standard Operating Procedure.

SAMPLE SUMMARY

H6D030241

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H2A	001	G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B	03/28/06	
H2H2M	002	G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B	03/28/06	
H2H2T	003	G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B	03/28/06	
H2H2V	004	G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B	03/29/06	
H2H2W	005	G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B	03/29/06	
H2H2X	006	G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B	03/29/06	
H2H20	007	G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B	03/28/06	
H2H21	008	G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B	03/28/06	
H2H22	009	G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B	03/28/06	
H2H23	010	G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB	03/30/06	
H2H24	011	G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B	03/30/06	
H2H25	012	G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B	03/30/06	
H2H26	013	G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B	03/30/06	
H2H27	014	A-5376 MEDIA CHECK XAD	03/28/06	
H2H28	015	A-5378 MEDIA CHECK FILTER	03/28/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030241

The results reported herein are applicable to the samples submitted for analysis only.

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The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Trace Level Organics – Method EPA-22 1668A

QC Batch 6100045

On the listed samples, the recovery of the listed internal standard exceeded the upper acceptance criterion (140%). The results are reported in accordance with the standard operating procedure. When properly applied, isotope dilution techniques produce results that are independent of internal standard recovery.

G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

13C12-PCB 209 145%

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PROJECT NARRATIVE
H6D030241

A-5378 MEDIA CHECK FILTER

13C12-PCB 209 145%

QC Batch 6100047

On the listed samples, the recovery of the listed internal standard exceeded the upper acceptance criterion (140%). The results are reported in accordance with the standard operating procedure. When properly applied, isotope dilution techniques produce results that are independent of internal standard recovery.

H2W5J1AA-Method Blank

13C12-PCB 209 148%

G-2927/2928-R1-MM5-BACK HALF COMPOSITE TRAIN B

13C12-PCB 209 149%

G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

13C12-PCB 209 151%

G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

13C12-PCB 209 147%

G-3042/R2-MM5 TRAIN B XAD-2 TRIP/RB

13C12-PCB 209 145%

G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

13C12-PCB 209 149%

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PROJECT NARRATIVE
H6D030241

A-5376 MEDIA CHECK XAD

13C12-PCB 209 148%

QC Batch 6100050

The method referenced for the analysis was EPA 1668 Revision A.

Nomenclature
The standardization strategy described in this report uses the naming convention of SW-846 Method 8290. This convention differs from Method 1668A in the following manner:

Standard Addition Occurs Prior To:	Method 1668 A	SW-846 Conventions Used in This Report
Sampling	None	Sampling Surrogate
Extraction	Labeled Toxics/LOC/Window Defining	Internal Standard
Cleanups	Labeled Cleanup Standard	Cleanup Standard
Injection	Labeled Injection Internal Standard	Recovery Standard

The shorthand notation used for congeners in this report is summarized in Table 2.

Qualifiers

The following flags are used to qualify results for HRMS PCB results:

J – The reported result is an estimate. The amount reported is below the Estimated Minimum Level (EML). EML is defined by the method as the lowest concentration at which an analyte can be measured reliably with common laboratory interferences present. This value has been determined for each congener by MDL and laboratory method blank studies. The value is adjusted to reflect sample specific initial and final volumes.

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E – The reported result is an estimate. The amount reported is above the UCL described below.

The E qualifier is applied on the basis of the **Upper Calibration Level (UCL)**. The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

B – The analyte is present in the associated method blank at a reportable level. For this analysis, there is no method specified reporting level, other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of 2.5-to-1. Therefore, the presence of any amount of the analyte present in the blank will result a B qualifier on all associated samples.

Note: Some laboratories do not report contamination in the blank unless it is above their lower calibration limit, or an established percentage of the level in the samples, or an established percentage of the regulatory limit. Likewise, some laboratories set a reporting limit at one half the lower calibration limit.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. The criteria include the following areas:
- Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio.)
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).
- Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.

S – Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicate a temporary suppression of the instrument sensitivity, due to a matrix-borne interference.

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C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer. When the C flag is followed by a number, the number indicates the lowest numbered congener among the coelution set. For example, if 100 pg/L is detected at the retention time of PCB 156, and PCB 157 is known to coelute with PCB 156, the results will be flagged as follows:
PCB 156 100 pg/L C
PCB 157 100 pg/L C26

In certain electronic deliverables the result field for PCB 157 will be null, with "C156" appearing in the qualifier field in accordance with the CARP EDD specification.

X – Other. See explanation in narrative.

Results
The results for the analyses are summarized in the following pages. Please see comments regarding qualifiers, above. Additional information regarding qualifiers is explained in the legends at the end of each result summary. All PCB shorthand identifications are done in accordance with the IUPAC convention. A summary of the IUPAC convention is provided in Table 2.

Detection Limits
For all analyte results a sample specific detection limit is calculated for that analyte. This is done by first determining the GC/MS peak height of the noise or interferent in the expected region of the analyte signal. This value is multiplied by the number 2.5, which serves as a safety factor. The 2.5 safety factor is disregarded if the noise present in the analyte region is a result of chemical interferences. The resulting signal response value is then used to estimate the minimum detectable analyte amount. The result is the estimated sample detection limit.

When an analyte is not detected, an ND appears in place of the result. The value in the detection limit column is the estimated detection limit for the analyte in that particular sample.

PROJECT NARRATIVE
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EXAMPLE CALCULATIONS

The following formulas were used for sample calculations. Examples are given for calculating the percent recovery for internal standard $^{13}C_{12}$-PCB 1, the concentration of native PCB 1 and the EDL for PCB 1. All values used in the calculations below are typical (i.e. not extracted from a particular sample). Actual values are found on the IsoCalc Preliminary Sample Report (IPSR) at the position indicated (in parentheses, below):

INTERNAL STANDARD RECOVERY ($^{13}C_{12}$-PCB 1)

$$\text{Percent Recovery} = \frac{\Sigma A_{IS} \bullet W_{RS} \bullet 100\%}{\Sigma A_{RS} \bullet W_{IS} \bullet RRF}$$

ΣA_{IS} = Sum of areas for the Internal Standard quantitation ions. (IPSR – Column "Area", Row "13C12-PCB 1")

W_{RS} = Mass in ng of the Recovery Standard. (IPSR – Column "Standard Amt", Row "13C12-PCB 9")

ΣA_{RS} = Sum of areas for the Recovery Standard quantitation ions. (IPSR – Column "Area", Row "13C12-PCB 9")

W_{IS} = Mass in ng of the Internal Standard. (IPSR – Column "Std Amt", Row "13C12-PCB 1")

RRF = Internal Standard mean relative response factor from the initial multipoint calibration. (IPSR - Column "RF", Row "13C12-PCB 1".)

$$\text{Substituting typical values ,} \quad \frac{1106275 \bullet 2.000\,(ng) \bullet 100\%}{1205581 \bullet 2.000\,(ng) \bullet 1.412} = 65\% \text{ Recovery}$$

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NATIVE ANALYTE QUANTITATION (PCB 1)

$$\text{Conc} = \frac{\Sigma A_X \bullet W_{IS}}{\Sigma A_{IS} \bullet V \bullet 0.001\ (\text{mL/L}) \bullet \text{RRF}}$$

ΣA_X = Sum of areas for analyte quantitation ions. (IPSR – Area Column "Area", Row "PCB 1")

W_{IS} = Mass in ng of Internal Standard. (IPSR – Column "Std Amt", Row "13C12-PCB 1")

ΣA_{IS} = Sum areas for the Internal Standard. (IPSR – Column "Area", Row 13C12-PCB 1)

V = Volume of sample extracted in mL. (IPSR – Header Column 2, Row "Initial Wt/Vol")

RRF = Native analyte mean relative response factor from the initial calibration, or daily response factor as appropriate. (IPSR – Column "RF", Row "PCB 1")

Substituting typical values, $\frac{8951 \bullet 2.000\ (\text{ng})}{1106275 \bullet 2200\ (\text{mL}) \bullet 0.001\ (\text{mL/L}) \bullet 1.136} = 0.0647\ \text{ng/L} = 6.47\ \text{pg/L}$

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PROJECT NARRATIVE
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CALCULATION OF SAMPLE SPECIFIC ESTIMATED DETECTION LIMIT

This calculation uses the noise values found on the IsoCalc Preliminary Peak Report (IPPR), which follows the IPSR. All the other values used in the equation are found on the IPSR.)

$$\frac{\Sigma I_X \bullet W_{IS} \bullet T_{SN}}{\Sigma I_{IS} \bullet V \bullet 0.001\ (mL/L) \bullet RRF}$$

ΣI_X = Sum of the intensities of the noise levels of the characteristic ions in the region of analyte elution. (IPPR – Columns "Height1" and "Height2", Row {mass} 188, Sub-Row "Noise").

W_{IS} = Mass in ng of the Internal Standard. (IPSR – Column "Std Amt", Row "13C12-PCB 1").

T_{SN} = Minimum Signal-to-Noise threshold. = 2.5. A constant, specified by the method.

ΣI_{IS} = Intensity of the corresponding ^{13}C ions. (IPSR – Column "Height", Row "13C12-PCB 9")

V = Volume of sample extracted in mL. (IPSR – Header Column 2, Row "Initial Wt/Vol")

RRF = Native analyte mean relative response factor from the initial calibration or daily standard as appropriate. (IPSR – Column "RF", Row "PCB 1")

Substituting typical values $\frac{79 \bullet 2000\ (pg) \bullet 2.5}{334600 \bullet 2200\ (mL) \bullet 0.001\ (mL/L) \bullet 1.136}$ = 0.466 pg/L

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PROJECT NARRATIVE
H6D030241

Table 1							
Concentration of PCBs in Calibration Solutions							
		CS 0.5	CS 1	CS 2	CS 3[2]	CS 4	CS 5
Analyte Type	BZ/IUPAC[1]	ng/mL	ng/mL	ng/mL	ng/mL	ng/mL	ng/mL
Congeners							
2-MoCB	1	0.5	1.0	5.0	50	400	2000
4-MoCB	3	0.5	1.0	5.0	50	400	2000
2,2'-DiCB	4	0.5	1.0	5.0	50	400	2000
4,4'-DiCB	15	0.5	1.0	5.0	50	400	2000
2,2',6'-TrCB	19	0.5	1.0	5.0	50	400	2000
3,4,4'-TrCB	37	0.5	1.0	5.0	50	400	2000
2,2',6,6'-TeCB	54	0.5	1.0	5.0	50	400	2000
3,3',4,4'-TeCB	77	0.5	1.0	5.0	50	400	2000
3,4,4',5-TeCB	81	0.5	1.0	5.0	50	400	2000
2,2',4,6,6'-PeCB	104	0.5	1.0	5.0	50	400	2000
2,3,3',4,4'-PeCB	105	0.5	1.0	5.0	50	400	2000
2,3,4,4',5-PeCB	114	0.5	1.0	5.0	50	400	2000
2,3',4,4',5-PeCB	118	0.5	1.0	5.0	50	400	2000
2',3,4,4',5-PeCB	123	0.5	1.0	5.0	50	400	2000
3,3',4,4',5-PeCB	126	0.5	1.0	5.0	50	400	2000
2,2',4,4',6,6'-HxCB	155	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5-HxCB	156	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5'-HxCB	157	0.5	1.0	5.0	50	400	2000
2,3',4,4',5,5'-HxCB	167	0.5	1.0	5.0	50	400	2000
3,3',4,4',5,5'-HxCB	169	0.5	1.0	5.0	50	400	2000
2,2',3,4',5,6,6'-HpCB	188	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5,5'-HpCB	189	0.5	1.0	5.0	50	400	2000
2,2',3,3',5,5',6,6'-OcCB	202	0.5	1.0	5.0	50	400	2000
2,3,3',4,4',5,5',6-OcCB	205	0.5	1.0	5.0	50	400	2000
2,2',3,3',4,4',5,5',6-NoCB	206	0.5	1.0	5.0	50	400	2000
2,2',3,3',4',5,5',6,6'-NoCB	208	0.5	1.0	5.0	50	400	2000
DeCB	209	0.5	1.0	5.0	50	400	2000
All other CB congeners		0.5	1.0	5.0	50	400	2000
Labeled Congeners							
$^{13}C_{12}$-2-MoCB	1L	100	100	100	100	100	100
$^{13}C_{12}$-4-MoCB	3L	100	100	100	100	100	100
$^{13}C_{12}$-2,2'-DiCB	4L	100	100	100	100	100	100
$^{13}C_{12}$-4,4'-DiCB	15L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',6-TrCB	19L	100	100	100	100	100	100
$^{13}C_{12}$-3,4,4'-TrCB	37L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',6,6'-TeCB	54L	100	100	100	100	100	100
$^{13}C_{12}$-3,3',4,4'-TeCB	77L	100	100	100	100	100	100
$^{13}C_{12}$-3,4,4',5-TeCB	81L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,4',5-PeCB	114L	100	100	100	100	100	100
$^{13}C_{12}$-2,3',4,4',5-PeCB	118L	100	100	100	100	100	100
$^{13}C_{12}$-2',3,4,4',5-PeCB	123L	100	100	100	100	100	100
$^{13}C_{12}$-3,3',4,4',5-PeCB	126L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157L	100	100	100	100	100	100
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167L	100	100	100	100	100	100
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169L	100	100	100	100	100	100

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$^{13}C_{12}$-2,2',3,3',4,4',5-HpCB	170L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202L	100	100	100	100	100	100
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,3',4',5,5',6,6'-NoCB	208L	100	100	100	100	100	100
$^{13}C_{12}$-DeCB	209L	100	100	100	100	100	100
Cleanup Standards							
$^{13}C_{12}$-2,4,4'-TriCB	28L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178L	0.5	1.0	5.0	50	400	--

		CS 0.5	CS 1	CS 2	CS 3[2]	CS 4	CS 5
Analyte Type	**BZ/IUPAC[1]**	**ng/mL**	**ng/mL**	**ng/mL**	**ng/mL**	**ng/mL**	**ng/mL**
Recovery Standards							
$^{13}C_{12}$-2,5-DiCB	9L	100	100	100	100	100	100
$^{13}C_{12}$-2,4',5-TriCB	31L	100	100	100	100	100	100
$^{13}C_{12}$-2,4',6-TriCB	32L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',5,5'-TeCB	52L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',4',5,5'-PeCB	101L	100	100	100	100	100	100
$^{13}C_{12}$-3,3',4,5,5'-PeCB	127L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3',4,4',5'-HxCB	138L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,4,4',5,5'-HpCB	180L	100	100	100	100	100	100
$^{13}C_{12}$-2,2',3,3',4,4',5,5'-OcCB	194L	100	100	100	100	100	100
Labeled Sampling Surrogates							
$^{13}C_{12}$-2,4'-DiCB	8L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-3,3',4,5'-TeCB	79L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-2,2',3,5',6-PeCB	95L	0.5	1.0	5.0	50	400	--
$^{13}C_{12}$-2,2',4,4',5,5'-HxCB	153L	0.5	1.0	5.0	50	400	--

Notes:
1. Suffix "L" indicates labeled compound
2. Section 15.3, calibration verification solution

Table 2
PCB Shorthand Nomenclature Used in this Report

BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number	BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number
1	2-monochlorobiphenyl	2051-60-7	106	2,3,3',4,5-pentachlorobiphenyl	70424-69-0
2	3-monochlorobiphenyl	2051-61-8	107/109	2,3,3',4,6-pentachlorobiphenyl	74472-35-8
3	4-monochlorobiphenyl	2051-62-9	108/107	2,3,3',4',5-pentachlorobiphenyl	70424-68-9
4	2,2'-dichlorobiphenyl	13029-08-8	109/108	2,3,3',4,5'-pentachlorobiphenyl	70362-41-3
5	2,3-dichlorobiphenyl	16605-91-7	110	2,3,3',4',6-pentachlorobiphenyl	38380-03-9
6	2,3'-dichlorobiphenyl	25569-80-6	111	2,3,3',5,5'-pentachlorobiphenyl	39635-32-0
7	2,4-dichlorobiphenyl	33284-50-3	112	2,3,3',5,6-pentachlorobiphenyl	74472-36-9
8	2,4'-dichlorobiphenyl	34883-43-7	113	2,3,3',5',6-pentachlorobiphenyl	68194-10-5
9	2,5-dichlorobiphenyl	34883-39-1	114	2,3,4,4',5-pentachlorobiphenyl	74472-37-0
10	2,6-dichlorobiphenyl	33146-45-1	115	2,3,4,4',6-pentachlorobiphenyl	74472-38-1
11	3,3'-dichlorobiphenyl	2050-67-1	116	2,3,4,5,6-pentachlorobiphenyl	18259-05-7
12	3,4-dichlorobiphenyl	2974-92-7	117	2,3,4',5,6-pentachlorobiphenyl	68194-11-6
13	3,4'-dichlorobiphenyl	2974-90-5	118	2,3',4,4',5-pentachlorobiphenyl	31508-00-6
14	3,5-dichlorobiphenyl	34883-41-5	119	2,3',4,4',6-pentachlorobiphenyl	56558-17-9

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Table 2

PCB Shorthand Nomenclature Used in this Report

BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number	BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number
15	4,4'-dichlorobiphenyl	2050-68-2	120	2,3',4,5,5'-pentachlorobiphenyl	68194-12-7
16	2,2',3-trichlorobiphenyl	38444-78-9	121	2,3',4,5',6-pentachlorobiphenyl	56558-18-0
17	2,2',4-trichlorobiphenyl	37680-66-3	122	2',3,3',4,5-pentachlorobiphenyl (2,3,3',4',5'-pentachlorobiphenyl)	76842-07-4
18	2,2',5-trichlorobiphenyl	37680-65-2	123	2',3,4,4',5-pentachlorobiphenyl (2,3',4,4',5'-pentachlorobiphenyl)	65510-44-3
19	2,2',6-trichlorobiphenyl	38444-73-4	124	2',3,4,5,5'-pentachlorobiphenyl (2,3',4',5',5-pentachlorobiphenyl)	70424-70-3
20	2,3,3'-trichlorobiphenyl	38444-84-7	125	2',3,4,5,6'-pentachlorobiphenyl (2,3',4',5',6-pentachlorobiphenyl)	74472-39-2
21	2,3,4-trichlorobiphenyl	55702-46-0	126	3,3',4,4',5-pentachlorobiphenyl	57465-28-8
22	2,3,4'-trichlorobiphenyl	38444-85-8	127	3,3',4,5,5'-pentachlorobiphenyl	39635-33-1
23	2,3,5-trichlorobiphenyl	55720-44-0	128	2,2',3,3',4,4'-hexachlorobiphenyl	38380-07-3
24	2,3,6-trichlorobiphenyl	55702-45-9	129	2,2',3,3',4,5-hexachlorobiphenyl	55215-18-4
25	2,3',4-trichlorobiphenyl	55712-37-3	130	2,2',3,3',4,5'-hexachlorobiphenyl	52663-66-8
26	2,3',5-trichlorobiphenyl	38444-81-4	131	2,2',3,3',4,6-hexachlorobiphenyl	61798-70-7
27	2,3',6-trichlorobiphenyl	38444-76-7	132	2,2',3,3',4,6'-hexachlorobiphenyl	38380-05-1
28	2,4,4'-trichlorobiphenyl	7012-37-5	133	2,2',3,3',5,5'-hexachlorobiphenyl	35694-04-3
29	2,4,5-trichlorobiphenyl	15862-07-4	134	2,2',3,3',5,6-hexachlorobiphenyl	52704-70-8
30	2,4,6-trichlorobiphenyl	35693-92-6	135	2,2',3,3',5,6'-hexachlorobiphenyl	52744-13-5
31	2,4',5-trichlorobiphenyl	16606-02-3	136	2,2',3,3',6,6'-hexachlorobiphenyl	38411-22-2
32	2,4',6-trichlorobiphenyl	38444-77-8	137	2,2',3,4,4',5-hexachlorobiphenyl	35694-06-5
33	2',3,4-trichlorobiphenyl (2,3',4'-trichlorobiphenyl)	38444-86-9	138	2,2',3,4,4',5'-hexachlorobiphenyl	35065-28-2
34	2',3,5-trichlorobiphenyl (2,3',5'-trichlorobiphenyl)	37680-68-5	139	2,2',3,4,4',6-hexachlorobiphenyl	56030-56-9
35	3,3',4-trichlorobiphenyl	37680-69-6	140	2,2',3,4,4',6'-hexachlorobiphenyl	59291-64-4
36	3,3',5-trichlorobiphenyl	38444-87-0	141	2,2',3,4,5,5'-hexachlorobiphenyl	52712-04-6
37	3,4,4'-trichlorobiphenyl	38444-90-5	142	2,2',3,4,5,6-hexachlorobiphenyl	41411-61-4
38	3,4,5-trichlorobiphenyl	53555-66-1	143	2,2',3,4,5,6'-hexachlorobiphenyl	68194-15-0
39	3,4',5-trichlorobiphenyl	38444-88-1	144	2,2',3,4,5',6-hexachlorobiphenyl	68194-14-9
40	2,2',3,3'-tetrachlorobiphenyl	38444-93-8	145	2,2',3,4,6,6'-hexachlorobiphenyl	74472-40-5
41	2,2',3,4-tetrachlorobiphenyl	52663-59-9	146	2,2',3,4',5,5'-hexachlorobiphenyl	51908-16-8
42	2,2',3,4'-tetrachlorobiphenyl	36559-22-5	147	2,2',3,4',5,6-hexachlorobiphenyl	68194-13-8
43	2,2',3,5-tetrachlorobiphenyl	70362-46-8	148	2,2',3,4',5,6'-hexachlorobiphenyl	74472-41-6
44	2,2',3,5'-tetrachlorobiphenyl	41464-39-5	149	2,2',3,4',5',6-hexachlorobiphenyl	38380-04-0
45	2,2',3,6-tetrachlorobiphenyl	70362-45-7	150	2,2',3,4',6,6'-hexachlorobiphenyl	68194-08-1
46	2,2',3,6'-tetrachlorobiphenyl	41464-47-5	151	2,2',3,5,5',6-hexachlorobiphenyl	52663-63-5
47	2,2',4,4'-tetrachlorobiphenyl	2437-79-8	152	2,2',3,5,6,6'-hexachlorobiphenyl	68194-09-2
48	2,2',4,5-tetrachlorobiphenyl	70362-47-9	153	2,2',4,4',5,5'-hexachlorobiphenyl	35065-27-1
49	2,2',4,5'-tetrachlorobiphenyl	41464-40-8	154	2,2',4,4',5,6'-hexachlorobiphenyl	60145-22-4
50	2,2',4,6-tetrachlorobiphenyl	62796-65-0	155	2,2',4,4',6,6'-hexachlorobiphenyl	33979-03-2
51	2,2',4,6'-tetrachlorobiphenyl	68194-04-7	156	2,3,3',4,4',5-hexachlorobiphenyl	38380-08-4
52	2,2',5,5'-tetrachlorobiphenyl	35693-99-3	157	2,3,3',4,4',5'-hexachlorobiphenyl	69782-90-7

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53	2,2',5,6'-tetrachlorobiphenyl	41464-41-9	158	2,3,3',4,4',6-hexachlorobiphenyl	74472-42-7
54	2,2',6,6'-tetrachlorobiphenyl	15968-05-5	159	2,3,3',4,5,5'-hexachlorobiphenyl	39635-35-3
55	2,3,3',4-tetrachlorobiphenyl	74338-24-2	160	2,3,3',4,5,6-hexachlorobiphenyl	41411-62-5
56	2,3,3',4'-tetrachlorobiphenyl	41464-43-1	161	2,3,3',4,5',6-hexachlorobiphenyl	74472-43-8
57	2,3,3',5-tetrachlorobiphenyl	70424-67-8	162	2,3,3',4',5,5'-hexachlorobiphenyl	39635-34-2
58	2,3,3',5'-tetrachlorobiphenyl	41464-49-7	163	2,3,3',4',5,6-hexachlorobiphenyl	74472-44-9
59	2,3,3',6-tetrachlorobiphenyl	74472-33-6	164	2,3,3',4',5',6-hexachlorobiphenyl	74472-45-0
60	2,3,4,4'-tetrachlorobiphenyl	33025-41-1	165	2,3,3',5,5',6-hexachlorobiphenyl	74472-46-1
61	2,3,4,5-tetrachlorobiphenyl	33284-53-6	166	2,3,4,4',5,6-hexachlorobiphenyl	41411-63-6
62	2,3,4,6-tetrachlorobiphenyl	54230-22-7	167	2,3',4,4',5,5'-hexachlorobiphenyl	52663-72-6
63	2,3,4',5-tetrachlorobiphenyl	74472-34-7	168	2,3',4,4',5',6-hexachlorobiphenyl	59291-65-5
64	2,3,4',6-tetrachlorobiphenyl	52663-58-8	169	3,3',4,4',5,5'-hexachlorobiphenyl	32774-16-6
65	2,3,5,6-tetrachlorobiphenyl	33284-54-7	170	2,2',3,3',4,4',5-heptachlorobiphenyl	35065-30-6
66	2,3',4,4'-tetrachlorobiphenyl	32598-10-0	171	2,2',3,3',4,4',6-heptachlorobiphenyl	52663-71-5
67	2,3',4,5-tetrachlorobiphenyl	73575-53-8	172	2,2',3,3',4,5,5'-heptachlorobiphenyl	52663-74-8
68	2,3',4,5'-tetrachlorobiphenyl	73575-52-7	173	2,2',3,3',4,5,6-heptachlorobiphenyl	68194-16-1
69	2,3',4,6-tetrachlorobiphenyl	60233-24-1	174	2,2',3,3',4,5,6'-heptachlorobiphenyl	38411-25-5
70	2,3',4',5-tetrachlorobiphenyl	32598-11-1	175	2,2',3,3',4,5',6-heptachlorobiphenyl	40186-70-7
71	2,3',4',6-tetrachlorobiphenyl	41464-46-4	176	2,2',3,3',4,6,6'-heptachlorobiphenyl	52663-65-7
72	2,3',5,5'-tetrachlorobiphenyl	41464-42-0	177	2,2',3,3',4',5,6-heptachlorobiphenyl (2,2',3,3',4,5',6'-heptachlorobiphenyl)	52663-70-4
73	2,3',5',6-tetrachlorobiphenyl	74338-23-1	178	2,2',3,3',5,5',6-heptachlorobiphenyl	52663-67-9
74	2,4,4',5-tetrachlorobiphenyl	32690-93-0	179	2,2',3,3',5,6,6'-heptachlorobiphenyl	52663-64-6
75	2,4,4',6-tetrachlorobiphenyl	32598-12-2	180	2,2',3,4,4',5,5'-heptachlorobiphenyl	35065-29-3
76	2',3,4,5-tetrachlorobiphenyl (2,3',4',5'-tetrachlorobiphenyl)	70362-48-0	181	2,2',3,4,4',5,6-heptachlorobiphenyl	74472-47-2
77	3,3',4,4'-tetrachlorobiphenyl	32598-13-3	182	2,2',3,4,4',5,6'-heptachlorobiphenyl	60145-23-5
78	3,3',4,5-tetrachlorobiphenyl	70362-49-1	183	2,2',3,4,4',5',6-heptachlorobiphenyl	52663-69-1
79	3,3',4,5'-tetrachlorobiphenyl	41464-48-6	184	2,2',3,4,4',6,6'-heptachlorobiphenyl	74472-48-3
80	3,3',5,5'-tetrachlorobiphenyl	33284-52-5	185	2,2',3,4,5,5',6-heptachlorobiphenyl	52712-05-7
81	3,4,4',5-tetrachlorobiphenyl	70362-50-4	186	2,2',3,4,5,6,6'-heptachlorobiphenyl	74472-49-4
82	2,2',3,3',4-pentachlorobiphenyl	52663-62-4	187	2,2',3,4',5,5',6-heptachlorobiphenyl	52663-68-0
83	2,2',3,3',5-pentachlorobiphenyl	60145-20-2	188	2,2',3,4',5,6,6'-heptachlorobiphenyl	74487-85-7
84	2,2',3,3',6-pentachlorobiphenyl	52663-60-2	189	2,3,3',4,4',5,5'-heptachlorobiphenyl	39635-31-9
85	2,2',3,4,4'-pentachlorobiphenyl	65510-45-4	190	2,3,3',4,4',5,6-heptachlorobiphenyl	41411-64-7
86	2,2',3,4,5-pentachlorobiphenyl	55312-69-1	191	2,3,3',4,4',5',6-heptachlorobiphenyl	74472-50-7
87	2,2',3,4,5'-pentachlorobiphenyl	38380-02-8	192	2,3,3',4,5,5',6-heptachlorobiphenyl	74472-51-8
88	2,2',3,4,6-pentachlorobiphenyl	55215-17-3	193	2,3,3',4',5,5',6-heptachlorobiphenyl	69782-91-8
89	2,2',3,4,6'-pentachlorobiphenyl	73575-57-2	194	2,2',3,3',4,4',5,5'-octachlorobiphenyl	35694-08-7
90	2,2',3,4',5-pentachlorobiphenyl	68194-07-0	195	2,2',3,3',4,4',5,6-octachlorobiphenyl	52663-78-2
91	2,2',3,4',6-pentachlorobiphenyl	68194-05-8	196	2,2',3,3',4,4',5,6'-octachlorobiphenyl	42740-50-1
92	2,2',3,5,5'-pentachlorobiphenyl	52663-61-3	197	2,2',3,3',4,4',6,6'-octachlorobiphenyl	33091-17-7

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PROJECT NARRATIVE
H6D030241

Table 2

PCB Shorthand Nomenclature Used in this Report

BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number	BZ/IUPAC Number[1].	PCB Chemical Structure Name[2]	CAS Registry[3] Number
93	2,2',3,5,6-pentachlorobiphenyl	73575-56-1	198	2,2',3,3',4,5,5',6-octachlorobiphenyl	68194-17-2
94	2,2',3,5,6'-pentachlorobiphenyl	73575-55-0	199/200	2,2',3,3',4,5,6,6'-octachlorobiphenyl	52663-73-7
95	2,2',3,5',6-pentachlorobiphenyl	38379-99-6	200/201	2,2',3,3',4,5',6,6'-octachlorobiphenyl	40186-71-8
96	2,2',3,6,6'-pentachlorobiphenyl	73575-54-9	201/199	2,2',3,3',4,5,5',6'-octachlorobiphenyl	52663-75-9
97	2,2',3',4,5-pentachlorobiphenyl (2,2',3,4',5'-pentachlorobiphenyl)	41464-51-1	202	2,2',3,3',5,5',6,6'-octachlorobiphenyl	2136-99-4
98	2,2',3',4,6-pentachlorobiphenyl (2,2',3,4',6'-pentachlorobiphenyl)	60233-25-2	203	2,2',3,4,4',5,5',6-octachlorobiphenyl	52663-76-0
99	2,2',4,4',5-pentachlorobiphenyl	38380-01-7	204	2,2',3,4,4',5,6,6'-octachlorobiphenyl	74472-52-9
100	2,2',4,4',6-pentachlorobiphenyl	39485-83-1	205	2,3,3',4,4',5,5',6-octachlorobiphenyl	74472-53-0
101	2,2',4,5,5'-pentachlorobiphenyl	37680-73-2	206	2,2',3,3',4,4',5,5',6-nonachlorobiphenyl	40186-72-9
102	2,2',4,5,6-pentachlorobiphenyl	68194-06-9	207	2,2',3,3',4,4',5,6,6'-nonachlorobiphenyl	52663-79-3
103	2,2',4,5',6-pentachlorobiphenyl	60145-21-3	208	2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl	52663-77-1
104	2,2',4,6,6'-pentachlorobiphenyl	56558-16-8	209	2,2',3,3',4,4',5,5',6,6'-decachlorobiphenyl	2051-24-3
105	2,3,3',4,4'-pentachlorobiphenyl	32598-14-4			

1. The BZ number is from Ballschmiter and Zell (1980). The IUPAC number, when different from the BZ, follows the recommended changes to the BZ number per Schulte and Malisch (1983) and Guitart et al. (1993).

2. The chemical structure names are from Ballschmiter and Zell (1980). IUPAC nomenclature structure names are listed in parenthesis when different from the BZ name (source CAS Registry).

3. Chemical Abstract Service Registry number (source CAS Registry and 1668A Table 1).

Trace Level Organics – Method KNOX ID-0016

QC Batch 6100060

The recoveries of the internal standards on the listed samples exceeded the upper acceptance criterion (120%). The results are reported in accordance with the standard operating procedure. When properly applied, isotope dilution techniques produce results that are independent of internal standard recovery.

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PROJECT NARRATIVE
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G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Indeno(1,2,3-cd)pyrene-d12	123%
Dibenz(ah)anthracene-d14	127%
Benzo(ghi)perylene-d12	123%

G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Indeno(1,2,3-cd)pyrene-d12	124%
Dibenz(ah)anthracene-d14	128%
Benzo(ghi)perylene-d12	124%

G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Indeno(1,2,3-cd)pyrene-d12	123%
Dibenz(ah)anthracene-d14	126%

G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Indeno(1,2,3-cd)pyrene-d12	126%
Dibenz(ah)anthracene-d14	129%

A-5376 MEDIA CHECK XAD

Indeno(1,2,3-cd)pyrene-d12	126%
Dibenz(ah)anthracene-d14	125%

H2W5Q1AA-Method Blank

Benzo(b)fluoranthene-d12	121%

On the listed sample the recovery of internal standard Perylene-d12 was outside the lower acceptance criterion (30%). The minimum required signal-to-noise ratio was present, and the target estimated detection limit for associated analytes was met. The results are reported in accordance with the standard operating procedure. When properly applied, isotope dilution techniques produce results that are independent of internal standard recovery.

G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Perylene-d12	7%

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PROJECT NARRATIVE
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The recovery of Benzo(ghi)perylene on the laboratory control sample H2W5Q1AC (142%) and laboratory control sample duplicate H2W5Q1AD (143%) was outside QC limits. The upper acceptance criterion is 140%.
Re-extraction is not possible due to limited amount of samples (air samples),therefore, the results are reported as is.

Sample **G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B** was diluted 10-fold to bring Naphthalene within the instrument calibration range.

The following flags are used to qualify results for LRMS-SIM PAH and SSVOC results:

J – The reported result is an estimate. The amount reported is below the Minimum Level (ML). The qualitative definition of the ML is "the lowest level at which the analytical system must give a reliable signal and an acceptable calibration point". The ML was introduced in EPA Methods 1624 and 1625 in 1980 and was promulgated in these methods in 1984 at 40 CFR Part 136, Appendix A. For the purposes of this report the ML is qualitatively defined as described above, and quantitatively defined as follows: **Minimum Level:** The concentration or mass of analyte in the sample that corresponds to the lowest calibration level in the initial calibration. It represents a concentration (in the sample extract) equivalent to that of the lowest calibration standard, after corrections for method-specified sample weights, volumes and cleanup procedures have been employed.

Example: The lowest calibration level for anthracene in the initial calibration is 0.02 μg/mL. A mass of 0.01 μg of anthracene in the sample would result in a concentration of 0.02 μg/mL in the sample extract (at a final volume of 0.5 mL). Since the concentration in the sample extract corresponds to the concentration in the lowest calibration standard, the 0.01 μg mass in the sample components is the ML. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The ML for anthracene becomes 0.1 μg rather than the default of 0.01 μg.

E – The reported result is an estimate. The amount reported is above the UCL described below.

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The E qualifier is applied on the basis of the **Upper Calibration Level (UCL)**. The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

Example: The highest calibration level for anthracene in the initial calibration is 5.0 µg/mL. A mass of 2.5 µg of anthracene in the sample would result in a concentration of 5.0 µg/mL in the sample extract (at a final volume of 0.5 mL). Since the concentration in the sample extract corresponds to the concentration in the highest calibration standard, the 2.5 µg mass in the sample components is the UCL. If the sample extract is further diluted, the UCL will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The UCL for anthracene becomes 25 µg rather than the default of 2.5 µg.

In this case all results above 25 µg are flagged with an E.

B – The analyte is present in the associated method blank at a reportable level. For this analysis, there is no method specified reporting level, other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of 2.5-to-1. Therefore, the presence of any amount of the analyte present in the blank will result a B qualifier on all associated samples.

If the blank has analytes present above the ML (described above) the need for corrective action beyond qualifying the associated data is evaluated. The determination is made whether the amount in the blank is less than 5% of the lowest amount in associated client samples or regulatory limit. If this is the case, sample processing may continue with the qualification of the data. If the amount in the blank is greater than 5% of the lowest amount in associated client samples or regulatory limit, corrective action must be taken.

The corrective actions may include extracting a second aliquot of sample if available, or notifying the client to assess the impact on the project objectives.

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Note: Some laboratories do not report contamination in the blank unless it is above their lower calibration limit, or an established percentage of the level in the samples, or an established percentage of the regulatory limit. Likewise, some laboratories set a reporting limit at one half the lower calibration limit.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. The criteria include the following areas:
- Quantitation ion present at 2.5 signal-to-noise ratio.
- Chromatographic evidence of confirmation ion must be present.
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).

Note: Total C2 and C3 naphthalene homologues are considered EMPC's and are qualified with the Q flag. This indicates that the qualitative criteria for these homologues are not as rigorous as they are for individual targets. (i.e., The retention times of all the compounds are not known. The compounds are identified as eluting within a retention time window established by examining a variety of crude oil standards.)

C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer

X – Other. See explanation in narrative.

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Sample Data Summary

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	**Work Order #....:**	H2H2A1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0096	ng/sampl
Dichlorobiphenyl (total)	**9.6**	**Q B**	**0.40**	**0.33**	**ng/sampl**
Heptachlorobiphenyl (total)	ND		0.20	0.21	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0066	ng/sampl
Hexachlorobiphenyl (total)	**0.093**	**Q J**	**0.20**	**0.35**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.010	ng/sampl
PCB 157 (BZ)	ND		0.20	0.010	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0073	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0073	ng/sampl
Monochlorobiphenyl (total)	**0.67**	**B**	**0.20**	**0.018**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.029	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.10	ng/sampl
Pentachlorobiphenyl (total)	**0.49**	**Q J B**	**0.20**	**0.32**	**ng/sampl**
PCB 105 (BZ)	**0.022**	**Q J**	**0.20**	**0.0073**	**ng/sampl**
PCB 114 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 118 (BZ)	**0.087**	**J**	**0.20**	**0.0073**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.0075	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0073	ng/sampl
Tetrachlorobiphenyl (total)	**2.2**	**Q B**	**0.40**	**0.29**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0083	ng/sampl
PCB 77 (BZ)	**0.030**	**Q J**	**0.20**	**0.0089**	**ng/sampl**
Trichlorobiphenyl (total)	**11**	**Q B**	**0.40**	**0.23**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	**Work Order #....:**	H2H2A1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	75		30 - 140
13C12-PCB 3	72		30 - 140
13C12-PCB 4	91		30 - 140
13C12-PCB 15	86		30 - 140
13C12-PCB 19	94		30 - 140
13C12-PCB 37	94		30 - 140
13C12-PCB 54	96		30 - 140
13C12-PCB 77	96		30 - 140
13C12-PCB 81	98		30 - 140
13C12-PCB 104	99		30 - 140
13C12-PCB 105	102		30 - 140
13C12-PCB 114	99		30 - 140
13C12-PCB 118	101		30 - 140
13C12-PCB 123	96		30 - 140
13C12-PCB 126	106		30 - 140
13C12-PCB 155	113		30 - 140
13C12-PCB 156	102	C	30 - 140
13C12-PCB 157	102	C	30 - 140
13C12-PCB 167	101		30 - 140
13C12-PCB 169	100		30 - 140
13C12-PCB 170	102		30 - 140
13C12-PCB 188	92		30 - 140
13C12-PCB 189	95		30 - 140
13C12-PCB 202	108		30 - 140
13C12-PCB 205	104		30 - 140
13C12-PCB 206	110		30 - 140
13C12-PCB 208	107		30 - 140
13C12-PCB 209	125		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	96	40 - 125
13C12-PCB 111	100	40 - 125
13C12-PCB 178	88	40 - 125

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	**Work Order #....:**	H2H2A1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	**Work Order #....:**	H2H2M1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.016	ng/sampl
Dichlorobiphenyl (total)	**9.8**	**Q B**	**0.40**	**0.34**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.13**	**Q J**	**0.20**	**0.31**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.013	ng/sampl
Hexachlorobiphenyl (total)	**0.33**	**Q B J**	**0.20**	**0.60**	**ng/sampl**
PCB 156 (BZ)	**0.061**	**Q C J**	**0.20**	**0.018**	**ng/sampl**
PCB 157 (BZ)	**0.061**	**Q C156 J**	**0.20**	**0.018**	**ng/sampl**
PCB 167 (BZ)	**0.027**	**J**	**0.20**	**0.012**	**ng/sampl**
PCB 169 (BZ)	ND		0.20	0.020	ng/sampl
Monochlorobiphenyl (total)	**6.0**	**B**	**0.20**	**0.029**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.054	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.16	ng/sampl
Pentachlorobiphenyl (total)	**1.0**	**Q B**	**0.20**	**0.46**	**ng/sampl**
PCB 105 (BZ)	**0.067**	**J**	**0.20**	**0.012**	**ng/sampl**
PCB 114 (BZ)	ND		0.20	0.011	ng/sampl
PCB 118 (BZ)	**0.13**	**J**	**0.20**	**0.012**	**ng/sampl**
PCB 123 (BZ)	**0.022**	**J**	**0.20**	**0.012**	**ng/sampl**
PCB 126 (BZ)	**0.091**	**Q J**	**0.20**	**0.016**	**ng/sampl**
Tetrachlorobiphenyl (total)	**4.0**	**B Q**	**0.40**	**0.55**	**ng/sampl**
PCB 81 (BZ)	**0.060**	**Q J**	**0.20**	**0.015**	**ng/sampl**
PCB 77 (BZ)	**0.36**		**0.20**	**0.018**	**ng/sampl**
Trichlorobiphenyl (total)	**8.0**	**Q B**	**0.40**	**0.34**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	**Work Order #....:**	H2H2M1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	69		30 - 140
13C12-PCB 3	68		30 - 140
13C12-PCB 4	90		30 - 140
13C12-PCB 15	79		30 - 140
13C12-PCB 19	92		30 - 140
13C12-PCB 37	84		30 - 140
13C12-PCB 54	90		30 - 140
13C12-PCB 77	75		30 - 140
13C12-PCB 81	80		30 - 140
13C12-PCB 104	99		30 - 140
13C12-PCB 105	110		30 - 140
13C12-PCB 114	111		30 - 140
13C12-PCB 118	116		30 - 140
13C12-PCB 123	109		30 - 140
13C12-PCB 126	87		30 - 140
13C12-PCB 155	116		30 - 140
13C12-PCB 156	88	C	30 - 140
13C12-PCB 157	88	C	30 - 140
13C12-PCB 167	91		30 - 140
13C12-PCB 169	56		30 - 140
13C12-PCB 170	94		30 - 140
13C12-PCB 188	101		30 - 140
13C12-PCB 189	85		30 - 140
13C12-PCB 202	116		30 - 140
13C12-PCB 205	104		30 - 140
13C12-PCB 206	118		30 - 140
13C12-PCB 208	128		30 - 140
13C12-PCB 209	149	*	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 8	103	50 - 150
13C12-PCB 28	92	40 - 125
13C12-PCB 79	104	50 - 150
13C12-PCB 95	103	50 - 150
13C12-PCB 111	100	40 - 125
13C12-PCB 153	126	50 - 150
13C12-PCB 178	94	40 - 125

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	**Work Order #....:**	H2H2M1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	**Work Order #....:**	H2H2T1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.025	ng/sampl
Dichlorobiphenyl (total)	**2.0**	**B Q**	**0.40**	**0.21**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.024**	**Q B J**	**0.20**	**0.29**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.0061	ng/sampl
Hexachlorobiphenyl (total)	**0.23**	**Q B J**	**0.20**	**0.45**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.013	ng/sampl
PCB 157 (BZ)	ND		0.20	0.013	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0098	ng/sampl
Monochlorobiphenyl (total)	**0.23**	**B J**	**0.20**	**0.012**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.050	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.14	ng/sampl
Pentachlorobiphenyl (total)	**0.75**	**J Q B**	**0.20**	**0.40**	**ng/sampl**
PCB 105 (BZ)	**0.035**	**B J**	**0.20**	**0.0067**	**ng/sampl**
PCB 114 (BZ)	ND		0.20	0.0065	ng/sampl
PCB 118 (BZ)	**0.078**	**Q B J**	**0.20**	**0.0066**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0072	ng/sampl
Tetrachlorobiphenyl (total)	**2.5**	**B Q**	**0.40**	**0.35**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.010	ng/sampl
PCB 77 (BZ)	**0.021**	**Q J**	**0.20**	**0.011**	**ng/sampl**
Trichlorobiphenyl (total)	**3.8**	**B Q**	**0.40**	**0.20**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	**Work Order #....:**	H2H2T1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	96		30 - 140
13C12-PCB 3	92		30 - 140
13C12-PCB 4	94		30 - 140
13C12-PCB 15	86		30 - 140
13C12-PCB 19	100		30 - 140
13C12-PCB 37	96		30 - 140
13C12-PCB 54	138		30 - 140
13C12-PCB 77	92		30 - 140
13C12-PCB 81	93		30 - 140
13C12-PCB 104	99		30 - 140
13C12-PCB 105	102		30 - 140
13C12-PCB 114	100		30 - 140
13C12-PCB 118	104		30 - 140
13C12-PCB 123	97		30 - 140
13C12-PCB 126	100		30 - 140
13C12-PCB 155	131		30 - 140
13C12-PCB 156	97	C	30 - 140
13C12-PCB 157	97	C	30 - 140
13C12-PCB 167	96		30 - 140
13C12-PCB 169	90		30 - 140
13C12-PCB 170	99		30 - 140
13C12-PCB 188	98		30 - 140
13C12-PCB 189	130		30 - 140
13C12-PCB 202	107		30 - 140
13C12-PCB 205	97		30 - 140
13C12-PCB 206	85		30 - 140
13C12-PCB 208	89		30 - 140
13C12-PCB 209	80		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	100	40 - 125
13C12-PCB 111	100	40 - 125
13C12-PCB 178	95	40 - 125

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	**Work Order #....:**	H2H2T1AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	**Work Order #....:**	H2H2V1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0082	ng/sampl
Dichlorobiphenyl (total)	**1.5**	**Q B**	**0.40**	**0.20**	**ng/sampl**
Heptachlorobiphenyl (total)	ND		0.20	0.19	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0060	ng/sampl
Hexachlorobiphenyl (total)	**0.028**	**Q J**	**0.20**	**0.31**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0062	ng/sampl
Monochlorobiphenyl (total)	**0.061**	**Q B J**	**0.20**	**0.013**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.028	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.089	ng/sampl
Pentachlorobiphenyl (total)	**0.030**	**Q J**	**0.20**	**0.27**	**ng/sampl**
PCB 105 (BZ)	ND		0.20	0.0061	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0058	ng/sampl
PCB 118 (BZ)	**0.018**	**Q J**	**0.20**	**0.0063**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0062	ng/sampl
Tetrachlorobiphenyl (total)	**0.38**	**Q J B**	**0.40**	**0.23**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0068	ng/sampl
PCB 77 (BZ)	ND		0.20	0.0073	ng/sampl
Trichlorobiphenyl (total)	**1.6**	**B J Q**	**0.40**	**0.18**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	**Work Order #....:**	H2H2V1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	81		30 - 140
13C12-PCB 3	79		30 - 140
13C12-PCB 4	97		30 - 140
13C12-PCB 15	92		30 - 140
13C12-PCB 19	101		30 - 140
13C12-PCB 37	99		30 - 140
13C12-PCB 54	102		30 - 140
13C12-PCB 77	98		30 - 140
13C12-PCB 81	99		30 - 140
13C12-PCB 104	103		30 - 140
13C12-PCB 105	108		30 - 140
13C12-PCB 114	104		30 - 140
13C12-PCB 118	106		30 - 140
13C12-PCB 123	100		30 - 140
13C12-PCB 126	112		30 - 140
13C12-PCB 155	116		30 - 140
13C12-PCB 156	105	C	30 - 140
13C12-PCB 157	105	C	30 - 140
13C12-PCB 167	102		30 - 140
13C12-PCB 169	107		30 - 140
13C12-PCB 170	105		30 - 140
13C12-PCB 188	97		30 - 140
13C12-PCB 189	101		30 - 140
13C12-PCB 202	113		30 - 140
13C12-PCB 205	131		30 - 140
13C12-PCB 206	114		30 - 140
13C12-PCB 208	112		30 - 140
13C12-PCB 209	129		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	99	40 - 125
13C12-PCB 111	101	40 - 125
13C12-PCB 178	91	40 - 125

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	**Work Order #....:**	H2H2V1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	**Work Order #....:**	H2H2W1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	**0.020**	**Q J**	**0.20**	**0.011**	**ng/sampl**
Dichlorobiphenyl (total)	**6.4**	**Q B**	**0.40**	**0.30**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.16**	**Q J**	**0.20**	**0.26**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.011	ng/sampl
Hexachlorobiphenyl (total)	**0.43**	**B J Q**	**0.20**	**0.55**	**ng/sampl**
PCB 156 (BZ)	**0.048**	**C J**	**0.20**	**0.016**	**ng/sampl**
PCB 157 (BZ)	**0.048**	**C156 J**	**0.20**	**0.016**	**ng/sampl**
PCB 167 (BZ)	**0.024**	**J**	**0.20**	**0.011**	**ng/sampl**
PCB 169 (BZ)	ND		0.20	0.019	ng/sampl
Monochlorobiphenyl (total)	**1.2**	**B**	**0.20**	**0.022**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.039	ng/sampl
Octachlorobiphenyl (total)	**0.014**	**Q J**	**0.20**	**0.12**	**ng/sampl**
Pentachlorobiphenyl (total)	**0.74**	**J Q B**	**0.20**	**0.41**	**ng/sampl**
PCB 105 (BZ)	**0.049**	**Q J**	**0.20**	**0.011**	**ng/sampl**
PCB 114 (BZ)	ND		0.20	0.010	ng/sampl
PCB 118 (BZ)	**0.097**	**Q J**	**0.20**	**0.011**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.010	ng/sampl
PCB 126 (BZ)	**0.069**	**J**	**0.20**	**0.016**	**ng/sampl**
Tetrachlorobiphenyl (total)	**2.8**	**B Q**	**0.40**	**0.51**	**ng/sampl**
PCB 81 (BZ)	**0.019**	**Q J**	**0.20**	**0.014**	**ng/sampl**
PCB 77 (BZ)	**0.17**	**J**	**0.20**	**0.017**	**ng/sampl**
Trichlorobiphenyl (total)	**5.5**	**Q B**	**0.40**	**0.30**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	**Work Order #....:**	H2H2W1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	75		30 - 140
13C12-PCB 3	72		30 - 140
13C12-PCB 4	96		30 - 140
13C12-PCB 15	81		30 - 140
13C12-PCB 19	97		30 - 140
13C12-PCB 37	84		30 - 140
13C12-PCB 54	94		30 - 140
13C12-PCB 77	73		30 - 140
13C12-PCB 81	78		30 - 140
13C12-PCB 104	103		30 - 140
13C12-PCB 105	112		30 - 140
13C12-PCB 114	111		30 - 140
13C12-PCB 118	115		30 - 140
13C12-PCB 123	111		30 - 140
13C12-PCB 126	86		30 - 140
13C12-PCB 155	116		30 - 140
13C12-PCB 156	89	C	30 - 140
13C12-PCB 157	89	C	30 - 140
13C12-PCB 167	90		30 - 140
13C12-PCB 169	53		30 - 140
13C12-PCB 170	95		30 - 140
13C12-PCB 188	98		30 - 140
13C12-PCB 189	86		30 - 140
13C12-PCB 202	115		30 - 140
13C12-PCB 205	119		30 - 140
13C12-PCB 206	119		30 - 140
13C12-PCB 208	130		30 - 140
13C12-PCB 209	151	*	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 8	102	50 - 150
13C12-PCB 28	95	40 - 125
13C12-PCB 79	109	50 - 150
13C12-PCB 95	105	50 - 150
13C12-PCB 111	99	40 - 125
13C12-PCB 153	129	50 - 150
13C12-PCB 178	93	40 - 125

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	**Work Order #....:**	H2H2W1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	**Work Order #....:**	H2H2X1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.011	ng/sampl
Dichlorobiphenyl (total)	**1.6**	**Q B**	**0.40**	**0.17**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.030**	**J Q B**	**0.20**	**0.16**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.0034	ng/sampl
Hexachlorobiphenyl (total)	**0.27**	**B J Q**	**0.20**	**0.25**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0049	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0060	ng/sampl
Monochlorobiphenyl (total)	**0.24**	**B J**	**0.20**	**0.0091**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.027	ng/sampl
Octachlorobiphenyl (total)	**0.0099**	**Q J**	**0.20**	**0.084**	**ng/sampl**
Pentachlorobiphenyl (total)	**0.74**	**J Q B**	**0.20**	**0.22**	**ng/sampl**
PCB 105 (BZ)	**0.039**	**B J**	**0.20**	**0.0035**	**ng/sampl**
PCB 114 (BZ)	**0.0075**	**Q J**	**0.20**	**0.0033**	**ng/sampl**
PCB 118 (BZ)	**0.076**	**B J**	**0.20**	**0.0036**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.0036	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0041	ng/sampl
Tetrachlorobiphenyl (total)	**2.1**	**B Q**	**0.40**	**0.19**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0058	ng/sampl
PCB 77 (BZ)	**0.018**	**Q J**	**0.20**	**0.0062**	**ng/sampl**
Trichlorobiphenyl (total)	**2.9**	**B Q**	**0.40**	**0.12**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	**Work Order #....:**	H2H2X1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	94		30 - 140
13C12-PCB 3	90		30 - 140
13C12-PCB 4	91		30 - 140
13C12-PCB 15	86		30 - 140
13C12-PCB 19	92		30 - 140
13C12-PCB 37	97		30 - 140
13C12-PCB 54	133		30 - 140
13C12-PCB 77	89		30 - 140
13C12-PCB 81	91		30 - 140
13C12-PCB 104	95		30 - 140
13C12-PCB 105	100		30 - 140
13C12-PCB 114	99		30 - 140
13C12-PCB 118	100		30 - 140
13C12-PCB 123	95		30 - 140
13C12-PCB 126	89		30 - 140
13C12-PCB 155	130		30 - 140
13C12-PCB 156	95	C	30 - 140
13C12-PCB 157	95	C	30 - 140
13C12-PCB 167	93		30 - 140
13C12-PCB 169	76		30 - 140
13C12-PCB 170	102		30 - 140
13C12-PCB 188	99		30 - 140
13C12-PCB 189	131		30 - 140
13C12-PCB 202	107		30 - 140
13C12-PCB 205	98		30 - 140
13C12-PCB 206	83		30 - 140
13C12-PCB 208	86		30 - 140
13C12-PCB 209	81		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	101	40 - 125
13C12-PCB 111	101	40 - 125
13C12-PCB 178	100	40 - 125

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	**Work Order #....:**	H2H2X1AC	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	**Work Order #....:**	H2H201AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0070	ng/sampl
Dichlorobiphenyl (total)	**4.0**	**Q B**	**0.40**	**0.18**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.11**	**Q J**	**0.20**	**0.17**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.0054	ng/sampl
Hexachlorobiphenyl (total)	**0.24**	**J Q**	**0.20**	**0.27**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.0080	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0080	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0057	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0057	ng/sampl
Monochlorobiphenyl (total)	**0.18**	**B J Q**	**0.20**	**0.013**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.023	ng/sampl
Octachlorobiphenyl (total)	**0.037**	**J**	**0.20**	**0.076**	**ng/sampl**
Pentachlorobiphenyl (total)	**0.66**	**J Q B**	**0.20**	**0.27**	**ng/sampl**
PCB 105 (BZ)	**0.037**	**Q J**	**0.20**	**0.0061**	**ng/sampl**
PCB 114 (BZ)	ND		0.20	0.0059	ng/sampl
PCB 118 (BZ)	**0.093**	**J**	**0.20**	**0.0063**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.0062	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0058	ng/sampl
Tetrachlorobiphenyl (total)	**2.3**	**Q B**	**0.40**	**0.22**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 77 (BZ)	**0.030**	**Q J**	**0.20**	**0.0069**	**ng/sampl**
Trichlorobiphenyl (total)	**6.2**	**Q B**	**0.40**	**0.16**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	**Work Order #....:**	H2H201AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	76		30 - 140
13C12-PCB 3	75		30 - 140
13C12-PCB 4	94		30 - 140
13C12-PCB 15	89		30 - 140
13C12-PCB 19	96		30 - 140
13C12-PCB 37	103		30 - 140
13C12-PCB 54	99		30 - 140
13C12-PCB 77	100		30 - 140
13C12-PCB 81	99		30 - 140
13C12-PCB 104	103		30 - 140
13C12-PCB 105	106		30 - 140
13C12-PCB 114	102		30 - 140
13C12-PCB 118	104		30 - 140
13C12-PCB 123	99		30 - 140
13C12-PCB 126	112		30 - 140
13C12-PCB 155	116		30 - 140
13C12-PCB 156	106	C	30 - 140
13C12-PCB 157	106	C	30 - 140
13C12-PCB 167	103		30 - 140
13C12-PCB 169	106		30 - 140
13C12-PCB 170	104		30 - 140
13C12-PCB 188	94		30 - 140
13C12-PCB 189	97		30 - 140
13C12-PCB 202	109		30 - 140
13C12-PCB 205	109		30 - 140
13C12-PCB 206	116		30 - 140
13C12-PCB 208	112		30 - 140
13C12-PCB 209	131		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	98	40 - 125
13C12-PCB 111	105	40 - 125
13C12-PCB 178	90	40 - 125

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	**Work Order #....:**	H2H201AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	**Work Order #....:**	H2H211AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.014	ng/sampl
Dichlorobiphenyl (total)	**0.60**	**Q B J**	**0.40**	**0.28**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.022**	**Q J**	**0.20**	**0.24**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.010	ng/sampl
Hexachlorobiphenyl (total)	**0.16**	**Q B J**	**0.20**	**0.49**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.014	ng/sampl
PCB 157 (BZ)	ND		0.20	0.014	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0095	ng/sampl
PCB 169 (BZ)	ND		0.20	0.017	ng/sampl
Monochlorobiphenyl (total)	**0.032**	**B J**	**0.20**	**0.017**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.039	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.12	ng/sampl
Pentachlorobiphenyl (total)	**0.29**	**J Q B**	**0.20**	**0.35**	**ng/sampl**
PCB 105 (BZ)	**0.024**	**Q J**	**0.20**	**0.0092**	**ng/sampl**
PCB 114 (BZ)	ND		0.20	0.0088	ng/sampl
PCB 118 (BZ)	**0.046**	**Q J**	**0.20**	**0.0090**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.0088	ng/sampl
PCB 126 (BZ)	ND		0.20	0.013	ng/sampl
Tetrachlorobiphenyl (total)	**1.1**	**Q B J**	**0.40**	**0.38**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.011	ng/sampl
PCB 77 (BZ)	ND		0.20	0.013	ng/sampl
Trichlorobiphenyl (total)	**1.4**	**Q J B**	**0.40**	**0.23**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	**Work Order #....:**	H2H211AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	71		30 - 140
13C12-PCB 3	70		30 - 140
13C12-PCB 4	91		30 - 140
13C12-PCB 15	78		30 - 140
13C12-PCB 19	94		30 - 140
13C12-PCB 37	83		30 - 140
13C12-PCB 54	95		30 - 140
13C12-PCB 77	74		30 - 140
13C12-PCB 81	78		30 - 140
13C12-PCB 104	100		30 - 140
13C12-PCB 105	110		30 - 140
13C12-PCB 114	109		30 - 140
13C12-PCB 118	114		30 - 140
13C12-PCB 123	109		30 - 140
13C12-PCB 126	87		30 - 140
13C12-PCB 155	116		30 - 140
13C12-PCB 156	87	C	30 - 140
13C12-PCB 157	87	C	30 - 140
13C12-PCB 167	90		30 - 140
13C12-PCB 169	55		30 - 140
13C12-PCB 170	91		30 - 140
13C12-PCB 188	96		30 - 140
13C12-PCB 189	84		30 - 140
13C12-PCB 202	110		30 - 140
13C12-PCB 205	109		30 - 140
13C12-PCB 206	120		30 - 140
13C12-PCB 208	125		30 - 140
13C12-PCB 209	147	*	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 8	101	50 - 150
13C12-PCB 28	96	40 - 125
13C12-PCB 79	102	50 - 150
13C12-PCB 95	102	50 - 150
13C12-PCB 111	101	40 - 125
13C12-PCB 153	123	50 - 150
13C12-PCB 178	92	40 - 125

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	**Work Order #....:**	H2H211AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	**Work Order #....:**	H2H221AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.015	ng/sampl
Dichlorobiphenyl (total)	**2.1**	**Q B**	**0.40**	**0.20**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.022**	**Q B J**	**0.20**	**0.21**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.0045	ng/sampl
Hexachlorobiphenyl (total)	**0.28**	**J Q B**	**0.20**	**0.31**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0066	ng/sampl
Monochlorobiphenyl (total)	**0.15**	**B J**	**0.20**	**0.010**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.035	ng/sampl
Octachlorobiphenyl (total)	**0.013**	**Q J**	**0.20**	**0.097**	**ng/sampl**
Pentachlorobiphenyl (total)	**0.94**	**J Q B**	**0.20**	**0.29**	**ng/sampl**
PCB 105 (BZ)	**0.037**	**B J**	**0.20**	**0.0047**	**ng/sampl**
PCB 114 (BZ)	ND		0.20	0.0044	ng/sampl
PCB 118 (BZ)	**0.091**	**B J**	**0.20**	**0.0049**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.0048	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0049	ng/sampl
Tetrachlorobiphenyl (total)	**3.6**	**Q B**	**0.40**	**0.25**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0072	ng/sampl
PCB 77 (BZ)	**0.024**	**Q J**	**0.20**	**0.0080**	**ng/sampl**
Trichlorobiphenyl (total)	**5.7**	**B Q**	**0.40**	**0.16**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	**Work Order #....:**	H2H221AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	93		30 - 140
13C12-PCB 3	91		30 - 140
13C12-PCB 4	88		30 - 140
13C12-PCB 15	83		30 - 140
13C12-PCB 19	90		30 - 140
13C12-PCB 37	90		30 - 140
13C12-PCB 54	123		30 - 140
13C12-PCB 77	85		30 - 140
13C12-PCB 81	88		30 - 140
13C12-PCB 104	93		30 - 140
13C12-PCB 105	94		30 - 140
13C12-PCB 114	93		30 - 140
13C12-PCB 118	94		30 - 140
13C12-PCB 123	89		30 - 140
13C12-PCB 126	92		30 - 140
13C12-PCB 155	122		30 - 140
13C12-PCB 156	90	C	30 - 140
13C12-PCB 157	90	C	30 - 140
13C12-PCB 167	88		30 - 140
13C12-PCB 169	86		30 - 140
13C12-PCB 170	96		30 - 140
13C12-PCB 188	95		30 - 140
13C12-PCB 189	125		30 - 140
13C12-PCB 202	101		30 - 140
13C12-PCB 205	99		30 - 140
13C12-PCB 206	77		30 - 140
13C12-PCB 208	81		30 - 140
13C12-PCB 209	75		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	100	40 - 125
13C12-PCB 111	101	40 - 125
13C12-PCB 178	98	40 - 125

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	**Work Order #....:**	H2H221AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	**Work Order #....:**	H2H231AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.013	ng/sampl
Dichlorobiphenyl (total)	**0.15**	**Q B J**	**0.40**	**0.28**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.015**	**J**	**0.20**	**0.24**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.0097	ng/sampl
Hexachlorobiphenyl (total)	**0.046**	**J Q B**	**0.20**	**0.48**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.014	ng/sampl
PCB 157 (BZ)	ND		0.20	0.014	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0092	ng/sampl
PCB 169 (BZ)	ND		0.20	0.018	ng/sampl
Monochlorobiphenyl (total)	ND		0.20	0.019	ng/sampl
Nonachlorobiphenyl (total)	ND		0.20	0.035	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.10	ng/sampl
Pentachlorobiphenyl (total)	**0.045**	**Q J**	**0.20**	**0.34**	**ng/sampl**
PCB 105 (BZ)	ND		0.20	0.0083	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0079	ng/sampl
PCB 118 (BZ)	**0.017**	**Q J**	**0.20**	**0.0082**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.0083	ng/sampl
PCB 126 (BZ)	ND		0.20	0.011	ng/sampl
Tetrachlorobiphenyl (total)	**0.072**	**Q B J**	**0.40**	**0.32**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0092	ng/sampl
PCB 77 (BZ)	ND		0.20	0.010	ng/sampl
Trichlorobiphenyl (total)	**0.12**	**B J Q**	**0.40**	**0.20**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	**Work Order #....:**	H2H231AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	65		30 - 140
13C12-PCB 3	63		30 - 140
13C12-PCB 4	83		30 - 140
13C12-PCB 15	74		30 - 140
13C12-PCB 19	89		30 - 140
13C12-PCB 37	80		30 - 140
13C12-PCB 54	91		30 - 140
13C12-PCB 77	74		30 - 140
13C12-PCB 81	79		30 - 140
13C12-PCB 104	95		30 - 140
13C12-PCB 105	111		30 - 140
13C12-PCB 114	111		30 - 140
13C12-PCB 118	115		30 - 140
13C12-PCB 123	108		30 - 140
13C12-PCB 126	86		30 - 140
13C12-PCB 155	114		30 - 140
13C12-PCB 156	89	C	30 - 140
13C12-PCB 157	89	C	30 - 140
13C12-PCB 167	91		30 - 140
13C12-PCB 169	51		30 - 140
13C12-PCB 170	99		30 - 140
13C12-PCB 188	101		30 - 140
13C12-PCB 189	86		30 - 140
13C12-PCB 202	119		30 - 140
13C12-PCB 205	106		30 - 140
13C12-PCB 206	118		30 - 140
13C12-PCB 208	126		30 - 140
13C12-PCB 209	145	*	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 8	102	50 - 150
13C12-PCB 28	89	40 - 125
13C12-PCB 79	105	50 - 150
13C12-PCB 95	105	50 - 150
13C12-PCB 111	97	40 - 125
13C12-PCB 153	127	50 - 150
13C12-PCB 178	94	40 - 125

STL Knoxville - ACS

Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	**Work Order #....:**	H2H231AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

*	Surrogate recovery is outside stated control limits.
B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Co-eluting isomer.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	**Work Order #....:**	H2H241AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0086	ng/sampl
Dichlorobiphenyl (total)	**2.6**	**B Q**	**0.40**	**0.27**	**ng/sampl**
Heptachlorobiphenyl (total)	ND		0.20	0.20	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0065	ng/sampl
Hexachlorobiphenyl (total)	**0.047**	**J Q**	**0.20**	**0.32**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0091	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0078	ng/sampl
Monochlorobiphenyl (total)	**0.18**	**Q B J**	**0.20**	**0.017**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.030	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.094	ng/sampl
Pentachlorobiphenyl (total)	**0.058**	**Q J**	**0.20**	**0.30**	**ng/sampl**
PCB 105 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0066	ng/sampl
PCB 118 (BZ)	**0.031**	**J**	**0.20**	**0.0073**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0074	ng/sampl
Tetrachlorobiphenyl (total)	**0.51**	**Q B J**	**0.40**	**0.27**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0079	ng/sampl
PCB 77 (BZ)	**0.017**	**Q J**	**0.20**	**0.0085**	**ng/sampl**
Trichlorobiphenyl (total)	**2.6**	**B Q**	**0.40**	**0.21**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	**Work Order #....:**	H2H241AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	81		30 - 140
13C12-PCB 3	79		30 - 140
13C12-PCB 4	98		30 - 140
13C12-PCB 15	92		30 - 140
13C12-PCB 19	103		30 - 140
13C12-PCB 37	100		30 - 140
13C12-PCB 54	104		30 - 140
13C12-PCB 77	102		30 - 140
13C12-PCB 81	103		30 - 140
13C12-PCB 104	109		30 - 140
13C12-PCB 105	114		30 - 140
13C12-PCB 114	111		30 - 140
13C12-PCB 118	112		30 - 140
13C12-PCB 123	107		30 - 140
13C12-PCB 126	111		30 - 140
13C12-PCB 155	125		30 - 140
13C12-PCB 156	110	C	30 - 140
13C12-PCB 157	110	C	30 - 140
13C12-PCB 167	108		30 - 140
13C12-PCB 169	94		30 - 140
13C12-PCB 170	114		30 - 140
13C12-PCB 188	107		30 - 140
13C12-PCB 189	104		30 - 140
13C12-PCB 202	123		30 - 140
13C12-PCB 205	119		30 - 140
13C12-PCB 206	126		30 - 140
13C12-PCB 208	120		30 - 140
13C12-PCB 209	145	*	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	101	40 - 125
13C12-PCB 111	109	40 - 125
13C12-PCB 178	101	40 - 125

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	**Work Order #....:**	H2H241AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	**Work Order #....:**	H2H251AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.015	ng/sampl
Dichlorobiphenyl (total)	**4.9**	**Q B**	**0.40**	**0.33**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.15**	**Q J**	**0.20**	**0.31**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.013	ng/sampl
Hexachlorobiphenyl (total)	**0.47**	**Q B J**	**0.20**	**0.64**	**ng/sampl**
PCB 156 (BZ)	**0.056**	**C J**	**0.20**	**0.019**	**ng/sampl**
PCB 157 (BZ)	**0.056**	**C156 J**	**0.20**	**0.019**	**ng/sampl**
PCB 167 (BZ)	**0.021**	**Q J**	**0.20**	**0.013**	**ng/sampl**
PCB 169 (BZ)	ND		0.20	0.021	ng/sampl
Monochlorobiphenyl (total)	**0.91**	**B**	**0.20**	**0.026**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.052	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.15	ng/sampl
Pentachlorobiphenyl (total)	**0.95**	**J Q B**	**0.20**	**0.48**	**ng/sampl**
PCB 105 (BZ)	**0.093**	**J**	**0.20**	**0.013**	**ng/sampl**
PCB 114 (BZ)	ND		0.20	0.012	ng/sampl
PCB 118 (BZ)	**0.16**	**J**	**0.20**	**0.012**	**ng/sampl**
PCB 123 (BZ)	ND		0.20	0.012	ng/sampl
PCB 126 (BZ)	**0.043**	**Q J**	**0.20**	**0.016**	**ng/sampl**
Tetrachlorobiphenyl (total)	**2.9**	**B Q**	**0.40**	**0.54**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.016	ng/sampl
PCB 77 (BZ)	**0.12**	**Q J**	**0.20**	**0.017**	**ng/sampl**
Trichlorobiphenyl (total)	**6.1**	**B Q**	**0.40**	**0.35**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	**Work Order #....:**	H2H251AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	63		30 - 140
13C12-PCB 3	62		30 - 140
13C12-PCB 4	83		30 - 140
13C12-PCB 15	73		30 - 140
13C12-PCB 19	88		30 - 140
13C12-PCB 37	77		30 - 140
13C12-PCB 54	84		30 - 140
13C12-PCB 77	72		30 - 140
13C12-PCB 81	76		30 - 140
13C12-PCB 104	94		30 - 140
13C12-PCB 105	112		30 - 140
13C12-PCB 114	111		30 - 140
13C12-PCB 118	115		30 - 140
13C12-PCB 123	109		30 - 140
13C12-PCB 126	90		30 - 140
13C12-PCB 155	111		30 - 140
13C12-PCB 156	87	C	30 - 140
13C12-PCB 157	87	C	30 - 140
13C12-PCB 167	89		30 - 140
13C12-PCB 169	55		30 - 140
13C12-PCB 170	93		30 - 140
13C12-PCB 188	97		30 - 140
13C12-PCB 189	83		30 - 140
13C12-PCB 202	114		30 - 140
13C12-PCB 205	104		30 - 140
13C12-PCB 206	120		30 - 140
13C12-PCB 208	130		30 - 140
13C12-PCB 209	149	*	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 8	102	50 - 150
13C12-PCB 28	85	40 - 125
13C12-PCB 79	106	50 - 150
13C12-PCB 95	103	50 - 150
13C12-PCB 111	96	40 - 125
13C12-PCB 153	126	50 - 150
13C12-PCB 178	91	40 - 125

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	**Work Order #....:**	H2H251AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	**Work Order #....:**	H2H261AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.013	ng/sampl
Dichlorobiphenyl (total)	**0.68**	**Q B J**	**0.40**	**0.22**	**ng/sampl**
Heptachlorobiphenyl (total)	ND		0.20	0.21	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0045	ng/sampl
Hexachlorobiphenyl (total)	**0.10**	**Q B J**	**0.20**	**0.30**	**ng/sampl**
PCB 156 (BZ)	**0.012**	**Q C J**	**0.20**	**0.0081**	**ng/sampl**
PCB 157 (BZ)	**0.012**	**Q C156 J**	**0.20**	**0.0081**	**ng/sampl**
PCB 167 (BZ)	ND		0.20	0.0058	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0083	ng/sampl
Monochlorobiphenyl (total)	**0.19**	**B J**	**0.20**	**0.011**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.032	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.10	ng/sampl
Pentachlorobiphenyl (total)	**0.28**	**Q J B**	**0.20**	**0.27**	**ng/sampl**
PCB 105 (BZ)	**0.017**	**Q B J**	**0.20**	**0.0046**	**ng/sampl**
PCB 114 (BZ)	**0.0081**	**Q J**	**0.20**	**0.0043**	**ng/sampl**
PCB 118 (BZ)	**0.023**	**Q B J**	**0.20**	**0.0046**	**ng/sampl**
PCB 123 (BZ)	**0.017**	**Q B J**	**0.20**	**0.0046**	**ng/sampl**
PCB 126 (BZ)	ND		0.20	0.0053	ng/sampl
Tetrachlorobiphenyl (total)	**0.73**	**J Q B**	**0.40**	**0.22**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0064	ng/sampl
PCB 77 (BZ)	ND		0.20	0.0071	ng/sampl
Trichlorobiphenyl (total)	**0.88**	**Q B J**	**0.40**	**0.13**	**ng/sampl**

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	**Work Order #....:**	H2H261AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	85		30 - 140
13C12-PCB 3	82		30 - 140
13C12-PCB 4	80		30 - 140
13C12-PCB 15	73		30 - 140
13C12-PCB 19	82		30 - 140
13C12-PCB 37	78		30 - 140
13C12-PCB 54	114		30 - 140
13C12-PCB 77	73		30 - 140
13C12-PCB 81	76		30 - 140
13C12-PCB 104	83		30 - 140
13C12-PCB 105	87		30 - 140
13C12-PCB 114	85		30 - 140
13C12-PCB 118	87		30 - 140
13C12-PCB 123	83		30 - 140
13C12-PCB 126	79		30 - 140
13C12-PCB 155	109		30 - 140
13C12-PCB 156	85	C	30 - 140
13C12-PCB 157	85	C	30 - 140
13C12-PCB 167	82		30 - 140
13C12-PCB 169	59		30 - 140
13C12-PCB 170	90		30 - 140
13C12-PCB 188	86		30 - 140
13C12-PCB 189	106		30 - 140
13C12-PCB 202	98		30 - 140
13C12-PCB 205	87		30 - 140
13C12-PCB 206	76		30 - 140
13C12-PCB 208	78		30 - 140
13C12-PCB 209	77		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	98	40 - 125
13C12-PCB 111	100	40 - 125
13C12-PCB 178	96	40 - 125

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	**Work Order #....:**	H2H261AC	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: A-5376 MEDIA CHECK XAD

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 014	**Work Order #....:**	H2H271AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0069	ng/sampl
Dichlorobiphenyl (total)	**0.39**	**Q B J**	**0.40**	**0.18**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.011**	**Q J**	**0.20**	**0.17**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.0069	ng/sampl
Hexachlorobiphenyl (total)	**0.042**	**Q B J**	**0.20**	**0.32**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.0094	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0094	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 169 (BZ)	ND		0.20	0.011	ng/sampl
Monochlorobiphenyl (total)	**0.13**	**B J Q**	**0.20**	**0.013**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.025	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.073	ng/sampl
Pentachlorobiphenyl (total)	**0.065**	**Q J B**	**0.20**	**0.22**	**ng/sampl**
PCB 105 (BZ)	ND		0.20	0.0059	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0055	ng/sampl
PCB 118 (BZ)	ND		0.20	0.0059	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0057	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0080	ng/sampl
Tetrachlorobiphenyl (total)	**0.30**	**B J Q**	**0.40**	**0.26**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0074	ng/sampl
PCB 77 (BZ)	ND		0.20	0.0084	ng/sampl
Trichlorobiphenyl (total)	**0.40**	**B J Q**	**0.40**	**0.14**	**ng/sampl**

STL Knoxville - ACS

Sample ID: A-5376 MEDIA CHECK XAD

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 014	**Work Order #....:**	H2H271AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	72		30 - 140
13C12-PCB 3	70		30 - 140
13C12-PCB 4	94		30 - 140
13C12-PCB 15	80		30 - 140
13C12-PCB 19	97		30 - 140
13C12-PCB 37	83		30 - 140
13C12-PCB 54	99		30 - 140
13C12-PCB 77	73		30 - 140
13C12-PCB 81	77		30 - 140
13C12-PCB 104	101		30 - 140
13C12-PCB 105	111		30 - 140
13C12-PCB 114	110		30 - 140
13C12-PCB 118	113		30 - 140
13C12-PCB 123	108		30 - 140
13C12-PCB 126	86		30 - 140
13C12-PCB 155	119		30 - 140
13C12-PCB 156	90	C	30 - 140
13C12-PCB 157	90	C	30 - 140
13C12-PCB 167	92		30 - 140
13C12-PCB 169	56		30 - 140
13C12-PCB 170	101		30 - 140
13C12-PCB 188	104		30 - 140
13C12-PCB 189	86		30 - 140
13C12-PCB 202	122		30 - 140
13C12-PCB 205	103		30 - 140
13C12-PCB 206	120		30 - 140
13C12-PCB 208	128		30 - 140
13C12-PCB 209	148	*	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	94	40 - 125
13C12-PCB 111	98	40 - 125
13C12-PCB 178	96	40 - 125

STL Knoxville - ACS

Sample ID: A-5376 MEDIA CHECK XAD

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 014	**Work Order #....:**	H2H271AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100047				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

STL Knoxville - ACS

Sample ID: A-5378 MEDIA CHECK FILTER

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 015	**Work Order #....:**	H2H281AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.0073	ng/sampl
Dichlorobiphenyl (total)	**0.13**	**Q B J**	**0.40**	**0.23**	**ng/sampl**
Heptachlorobiphenyl (total)	ND		0.20	0.19	ng/sampl
PCB 189 (BZ)	ND		0.20	0.0065	ng/sampl
Hexachlorobiphenyl (total)	ND		0.20	0.34	ng/sampl
PCB 156 (BZ)	ND		0.20	0.0097	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0097	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0094	ng/sampl
Monochlorobiphenyl (total)	**0.045**	**B J**	**0.20**	**0.013**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.031	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.099	ng/sampl
Pentachlorobiphenyl (total)	ND		0.20	0.29	ng/sampl
PCB 105 (BZ)	ND		0.20	0.0067	ng/sampl
PCB 114 (BZ)	ND		0.20	0.0063	ng/sampl
PCB 118 (BZ)	ND		0.20	0.0068	ng/sampl
PCB 123 (BZ)	ND		0.20	0.0066	ng/sampl
PCB 126 (BZ)	ND		0.20	0.0080	ng/sampl
Tetrachlorobiphenyl (total)	**0.077**	**Q B J**	**0.40**	**0.23**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0069	ng/sampl
PCB 77 (BZ)	ND		0.20	0.0072	ng/sampl
Trichlorobiphenyl (total)	**0.11**	**B J Q**	**0.40**	**0.15**	**ng/sampl**

STL Knoxville - ACS

Sample ID: A-5378 MEDIA CHECK FILTER

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 015	**Work Order #....:**	H2H281AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	81		30 - 140
13C12-PCB 3	77		30 - 140
13C12-PCB 4	98		30 - 140
13C12-PCB 15	89		30 - 140
13C12-PCB 19	101		30 - 140
13C12-PCB 37	98		30 - 140
13C12-PCB 54	102		30 - 140
13C12-PCB 77	99		30 - 140
13C12-PCB 81	98		30 - 140
13C12-PCB 104	107		30 - 140
13C12-PCB 105	115		30 - 140
13C12-PCB 114	111		30 - 140
13C12-PCB 118	113		30 - 140
13C12-PCB 123	107		30 - 140
13C12-PCB 126	100		30 - 140
13C12-PCB 155	122		30 - 140
13C12-PCB 156	108	C	30 - 140
13C12-PCB 157	108	C	30 - 140
13C12-PCB 167	106		30 - 140
13C12-PCB 169	78		30 - 140
13C12-PCB 170	112		30 - 140
13C12-PCB 188	109		30 - 140
13C12-PCB 189	100		30 - 140
13C12-PCB 202	124		30 - 140
13C12-PCB 205	113		30 - 140
13C12-PCB 206	125		30 - 140
13C12-PCB 208	120		30 - 140
13C12-PCB 209	145	*	30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	99	40 - 125
13C12-PCB 111	106	40 - 125
13C12-PCB 178	99	40 - 125

STL Knoxville - ACS

Sample ID: A-5378 MEDIA CHECK FILTER

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 015	**Work Order #....:**	H2H281AC	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100045				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Patricia(Trish) M. Parsly				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C Co-eluting isomer.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

Sample Data Summary

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	**Work Order #....:**	H2H2A1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**3.4**	**B J**	**20**	**0.70**	**ng/sampl**
Acenaphthylene	**9.1**	**J**	**20**	**0.23**	**ng/sampl**
Anthracene	**4.0**	**J**	**20**	**0.40**	**ng/sampl**
Benzo(a)anthracene	**1.7**	**B J**	**20**	**0.17**	**ng/sampl**
Benzo(b)fluoranthene	**4.2**	**B J**	**20**	**0.56**	**ng/sampl**
Benzo(k)fluoranthene	**3.1**	**B J**	**20**	**0.68**	**ng/sampl**
Benzo(ghi)perylene	**5.6**	**J**	**20**	**0.39**	**ng/sampl**
Benzo(a)pyrene	**2.7**	**B J**	**20**	**0.85**	**ng/sampl**
Benzo(e)pyrene	**4.5**	**B J**	**20**	**0.71**	**ng/sampl**
Chrysene	**3.5**	**B J**	**20**	**0.18**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.32	ng/sampl
Fluoranthene	**27**	**B**	**20**	**0.51**	**ng/sampl**
Fluorene	**15**	**B J**	**20**	**0.48**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**3.3**	**B J**	**20**	**0.39**	**ng/sampl**
2-Methylnaphthalene	**31**	**B J**	**20**	**0.30**	**ng/sampl**
Naphthalene	**40**	**B J**	**20**	**0.35**	**ng/sampl**
Perylene	ND		20	0.91	ng/sampl
Phenanthrene	**140**	**B**	**20**	**0.34**	**ng/sampl**
Pyrene	**25**	**B J**	**20**	**0.49**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	93	15 - 120
2-Methylnaphthalene-d10	100	20 - 120
Acenaphthylene-d8	106	20 - 120
Phenanthrene-d10	108	30 - 120
Fluoranthene-d10	109	30 - 120
Benzo(a)anthracene-d12	118	30 - 120
Chrysene-d12	105	30 - 120
Benzo(b)fluoranthene-d12	106	30 - 120
Benzo(k)fluoranthene-d12	107	30 - 120
Benzo(a)pyrene-d12	101	30 - 120
Perylene-d12	93	30 - 120
Indeno(1,2,3-cd)pyrene-d12	113	30 - 120
Dibenz(ah)anthracene-d14	116	30 - 120
Benzo(ghi)perylene-d12	109	30 - 120

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	**Work Order #....:**	H2H2A1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	**Work Order #....:**	H2H2M1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**3.5**	**B J**	**20**	**0.78**	**ng/sampl**
Acenaphthylene	**14**	**J**	**20**	**0.24**	**ng/sampl**
Anthracene	**28**		**20**	**0.60**	**ng/sampl**
Benzo(a)anthracene	**5.4**	**J**	**20**	**0.23**	**ng/sampl**
Benzo(b)fluoranthene	**40**	**B**	**20**	**0.54**	**ng/sampl**
Benzo(k)fluoranthene	**4.3**	**J**	**20**	**0.66**	**ng/sampl**
Benzo(ghi)perylene	**4.0**	**J**	**20**	**0.67**	**ng/sampl**
Benzo(a)pyrene	**2.2**	**B J**	**20**	**0.81**	**ng/sampl**
Benzo(e)pyrene	**4.4**	**B J**	**20**	**0.70**	**ng/sampl**
Chrysene	**18**	**J**	**20**	**0.27**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.50	ng/sampl
Fluoranthene	**100**	**B**	**20**	**0.43**	**ng/sampl**
Fluorene	**11**	**B J**	**20**	**0.92**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**3.8**	**J**	**20**	**0.71**	**ng/sampl**
2-Methylnaphthalene	**80**	**B J**	**20**	**0.38**	**ng/sampl**
Naphthalene	**880**	**B**	**20**	**0.73**	**ng/sampl**
Perylene	**3.5**	**B J**	**20**	**0.81**	**ng/sampl**
Phenanthrene	**300**	**B**	**20**	**0.53**	**ng/sampl**
Pyrene	**110**	**B**	**20**	**0.42**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
Naphthalene-d8	86		15 - 120
2-Methylnaphthalene-d10	91		20 - 120
Acenaphthylene-d8	107		20 - 120
Phenanthrene-d10	102		30 - 120
Fluoranthene-d10	104		30 - 120
Benzo(a)anthracene-d12	114		30 - 120
Chrysene-d12	106		30 - 120
Benzo(b)fluoranthene-d12	106		30 - 120
Benzo(k)fluoranthene-d12	110		30 - 120
Benzo(a)pyrene-d12	109		30 - 120
Perylene-d12	103		30 - 120
Indeno(1,2,3-cd)pyrene-d12	123	*	30 - 120
Dibenz(ah)anthracene-d14	127	*	30 - 120
Benzo(ghi)perylene-d12	123	*	30 - 120

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	**Work Order #....:**	H2H2M1AA	**Matrix.....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	97	30 - 140
Terphenyl-d14	96	30 - 140
13C6-Fluorene	101	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	**Work Order #....:**	H2H2T1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.5**	**J**	**20**	**0.98**	**ng/sampl**
Acenaphthylene	ND		20	0.29	ng/sampl
Anthracene	**7.8**	**J**	**20**	**0.65**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.48	ng/sampl
Benzo(b)fluoranthene	**5.8**	**J**	**20**	**1.2**	**ng/sampl**
Benzo(k)fluoranthene	**5.5**	**J**	**20**	**1.5**	**ng/sampl**
Benzo(ghi)perylene	**15**	**B J**	**20**	**0.56**	**ng/sampl**
Benzo(a)pyrene	**3.4**	**B J**	**20**	**1.8**	**ng/sampl**
Benzo(e)pyrene	**5.1**	**B J**	**20**	**1.5**	**ng/sampl**
Chrysene	**4.7**	**B J**	**20**	**0.50**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.65	ng/sampl
Fluoranthene	**26**	**B**	**20**	**0.28**	**ng/sampl**
Fluorene	**3.3**	**J**	**20**	**0.69**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**4.7**	**B J**	**20**	**0.60**	**ng/sampl**
2-Methylnaphthalene	**13**	**B J**	**20**	**0.56**	**ng/sampl**
Naphthalene	**30**	**B J**	**20**	**0.83**	**ng/sampl**
Perylene	ND		20	1.7	ng/sampl
Phenanthrene	**39**	**B J**	**20**	**0.56**	**ng/sampl**
Pyrene	**20**	**B J**	**20**	**0.27**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	93	15 - 120
2-Methylnaphthalene-d10	96	20 - 120
Acenaphthylene-d8	106	20 - 120
Phenanthrene-d10	111	30 - 120
Fluoranthene-d10	109	30 - 120
Benzo(a)anthracene-d12	118	30 - 120
Chrysene-d12	104	30 - 120
Benzo(b)fluoranthene-d12	110	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	111	30 - 120
Perylene-d12	107	30 - 120
Indeno(1,2,3-cd)pyrene-d12	113	30 - 120
Dibenz(ah)anthracene-d14	116	30 - 120
Benzo(ghi)perylene-d12	113	30 - 120

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	**Work Order #....:**	H2H2T1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	104	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	**Work Order #....:**	H2H2V1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.1**	**B J**	**20**	**0.98**	**ng/sampl**
Acenaphthylene	ND		20	0.28	ng/sampl
Anthracene	ND		20	0.44	ng/sampl
Benzo(a)anthracene	ND		20	0.36	ng/sampl
Benzo(b)fluoranthene	ND		20	0.83	ng/sampl
Benzo(k)fluoranthene	ND		20	1.1	ng/sampl
Benzo(ghi)perylene	ND		20	0.75	ng/sampl
Benzo(a)pyrene	ND		20	1.4	ng/sampl
Benzo(e)pyrene	ND		20	1.1	ng/sampl
Chrysene	ND		20	0.39	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.41	ng/sampl
Fluoranthene	**4.4**	**B J**	**20**	**0.24**	**ng/sampl**
Fluorene	**3.3**	**B J**	**20**	**0.51**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	ND		20	0.76	ng/sampl
2-Methylnaphthalene	**12**	**B J**	**20**	**0.44**	**ng/sampl**
Naphthalene	**23**	**B J**	**20**	**0.51**	**ng/sampl**
Perylene	ND		20	1.4	ng/sampl
Phenanthrene	**25**	**B J**	**20**	**0.38**	**ng/sampl**
Pyrene	**6.4**	**B J**	**20**	**0.23**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	92	15 - 120
2-Methylnaphthalene-d10	97	20 - 120
Acenaphthylene-d8	100	20 - 120
Phenanthrene-d10	107	30 - 120
Fluoranthene-d10	108	30 - 120
Benzo(a)anthracene-d12	109	30 - 120
Chrysene-d12	98	30 - 120
Benzo(b)fluoranthene-d12	109	30 - 120
Benzo(k)fluoranthene-d12	104	30 - 120
Benzo(a)pyrene-d12	99	30 - 120
Perylene-d12	92	30 - 120
Indeno(1,2,3-cd)pyrene-d12	105	30 - 120
Dibenz(ah)anthracene-d14	106	30 - 120
Benzo(ghi)perylene-d12	106	30 - 120

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	**Work Order #....:**	H2H2V1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	**Work Order #....:**	H2H2W1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**3.3**	**B J**	**20**	**1.0**	**ng/sampl**
Acenaphthylene	**7.8**	**J**	**20**	**0.36**	**ng/sampl**
Anthracene	**8.1**	**J**	**20**	**0.88**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.35	ng/sampl
Benzo(b)fluoranthene	**55**	**B**	**20**	**1.1**	**ng/sampl**
Benzo(k)fluoranthene	**4.6**	**J**	**20**	**1.4**	**ng/sampl**
Benzo(ghi)perylene	**4.4**	**J**	**20**	**1.4**	**ng/sampl**
Benzo(a)pyrene	ND		20	1.7	ng/sampl
Benzo(e)pyrene	ND		20	1.5	ng/sampl
Chrysene	**21**		**20**	**0.39**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.92	ng/sampl
Fluoranthene	**32**	**B**	**20**	**0.52**	**ng/sampl**
Fluorene	**10**	**B J**	**20**	**0.93**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	ND		20	1.4	ng/sampl
2-Methylnaphthalene	**52**	**B J**	**20**	**0.51**	**ng/sampl**
Naphthalene	**1900**	**B**	**20**	**0.67**	**ng/sampl**
Perylene	ND		20	1.6	ng/sampl
Phenanthrene	**96**	**B**	**20**	**0.77**	**ng/sampl**
Pyrene	**30**	**B J**	**20**	**0.51**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	89	15 - 120
2-Methylnaphthalene-d10	96	20 - 120
Acenaphthylene-d8	109	20 - 120
Phenanthrene-d10	111	30 - 120
Fluoranthene-d10	109	30 - 120
Benzo(a)anthracene-d12	108	30 - 120
Chrysene-d12	98	30 - 120
Benzo(b)fluoranthene-d12	109	30 - 120
Benzo(k)fluoranthene-d12	110	30 - 120
Benzo(a)pyrene-d12	105	30 - 120
Perylene-d12	101	30 - 120
Indeno(1,2,3-cd)pyrene-d12	104	30 - 120
Dibenz(ah)anthracene-d14	114	30 - 120
Benzo(ghi)perylene-d12	103	30 - 120

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	**Work Order #....:**	H2H2W1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	101	30 - 140
Terphenyl-d14	102	30 - 140
13C6-Fluorene	106	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	**Work Order #....:**	H2H2X1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.5**	**J**	**20**	**0.81**	**ng/sampl**
Acenaphthylene	ND		20	0.23	ng/sampl
Anthracene	**3.5**	**J**	**20**	**0.56**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.45	ng/sampl
Benzo(b)fluoranthene	**3.9**	**J**	**20**	**0.93**	**ng/sampl**
Benzo(k)fluoranthene	ND		20	1.2	ng/sampl
Benzo(ghi)perylene	**18**	**B J**	**20**	**0.69**	**ng/sampl**
Benzo(a)pyrene	**2.7**	**B J**	**20**	**1.5**	**ng/sampl**
Benzo(e)pyrene	**5.3**	**B J**	**20**	**1.2**	**ng/sampl**
Chrysene	**3.1**	**B J**	**20**	**0.49**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.45	ng/sampl
Fluoranthene	**18**	**B J**	**20**	**0.21**	**ng/sampl**
Fluorene	**2.8**	**J**	**20**	**0.49**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**5.3**	**B J**	**20**	**0.70**	**ng/sampl**
2-Methylnaphthalene	**13**	**B J**	**20**	**0.59**	**ng/sampl**
Naphthalene	**34**	**B J**	**20**	**0.54**	**ng/sampl**
Perylene	ND		20	1.3	ng/sampl
Phenanthrene	**27**	**B J**	**20**	**0.49**	**ng/sampl**
Pyrene	**15**	**B J**	**20**	**0.21**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	85	15 - 120
2-Methylnaphthalene-d10	91	20 - 120
Acenaphthylene-d8	98	20 - 120
Phenanthrene-d10	105	30 - 120
Fluoranthene-d10	106	30 - 120
Benzo(a)anthracene-d12	109	30 - 120
Chrysene-d12	97	30 - 120
Benzo(b)fluoranthene-d12	106	30 - 120
Benzo(k)fluoranthene-d12	105	30 - 120
Benzo(a)pyrene-d12	104	30 - 120
Perylene-d12	104	30 - 120
Indeno(1,2,3-cd)pyrene-d12	112	30 - 120
Dibenz(ah)anthracene-d14	115	30 - 120
Benzo(ghi)perylene-d12	111	30 - 120

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	**Work Order #....:**	H2H2X1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	92	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	**Work Order #....:**	H2H201AA	**Matrix.....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.9**	**B J**	**20**	**0.67**	**ng/sampl**
Acenaphthylene	**2.3**	**J**	**20**	**0.14**	**ng/sampl**
Anthracene	**6.0**	**J**	**20**	**0.41**	**ng/sampl**
Benzo(a)anthracene	**4.5**	**B J**	**20**	**0.25**	**ng/sampl**
Benzo(b)fluoranthene	**13**	**B J**	**20**	**0.78**	**ng/sampl**
Benzo(k)fluoranthene	**11**	**B J**	**20**	**1.0**	**ng/sampl**
Benzo(ghi)perylene	**11**	**J**	**20**	**0.55**	**ng/sampl**
Benzo(a)pyrene	**8.0**	**B J**	**20**	**1.3**	**ng/sampl**
Benzo(e)pyrene	**8.4**	**B J**	**20**	**1.1**	**ng/sampl**
Chrysene	**13**	**B J**	**20**	**0.27**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.55	ng/sampl
Fluoranthene	**36**	**B**	**20**	**0.16**	**ng/sampl**
Fluorene	**5.8**	**B J**	**20**	**0.47**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**11**	**B J**	**20**	**0.60**	**ng/sampl**
2-Methylnaphthalene	**15**	**B J**	**20**	**0.40**	**ng/sampl**
Naphthalene	**28**	**B J**	**20**	**0.29**	**ng/sampl**
Perylene	**3.2**	**B J**	**20**	**1.1**	**ng/sampl**
Phenanthrene	**68**	**B**	**20**	**0.35**	**ng/sampl**
Pyrene	**28**	**B J**	**20**	**0.15**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	92	15 - 120
2-Methylnaphthalene-d10	98	20 - 120
Acenaphthylene-d8	108	20 - 120
Phenanthrene-d10	114	30 - 120
Fluoranthene-d10	111	30 - 120
Benzo(a)anthracene-d12	115	30 - 120
Chrysene-d12	103	30 - 120
Benzo(b)fluoranthene-d12	109	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	108	30 - 120
Perylene-d12	107	30 - 120
Indeno(1,2,3-cd)pyrene-d12	116	30 - 120
Dibenz(ah)anthracene-d14	119	30 - 120
Benzo(ghi)perylene-d12	117	30 - 120

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	**Work Order #....:**	H2H201AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	**Work Order #....:**	H2H211AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**4.2**	**B J**	**20**	**0.60**	**ng/sampl**
Acenaphthylene	**1.3**	**J**	**20**	**0.22**	**ng/sampl**
Anthracene	ND		20	0.45	ng/sampl
Benzo(a)anthracene	ND		20	0.21	ng/sampl
Benzo(b)fluoranthene	**39**	**B**	**20**	**0.51**	**ng/sampl**
Benzo(k)fluoranthene	**3.5**	**J**	**20**	**0.60**	**ng/sampl**
Benzo(ghi)perylene	**3.3**	**J**	**20**	**0.92**	**ng/sampl**
Benzo(a)pyrene	ND		20	0.72	ng/sampl
Benzo(e)pyrene	ND		20	0.62	ng/sampl
Chrysene	**2.4**	**J**	**20**	**0.24**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.64	ng/sampl
Fluoranthene	**9.6**	**B J**	**20**	**0.46**	**ng/sampl**
Fluorene	**2.8**	**B J**	**20**	**0.43**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**1.4**	**J**	**20**	**0.82**	**ng/sampl**
2-Methylnaphthalene	**17**	**B J**	**20**	**0.33**	**ng/sampl**
Naphthalene	**200**	**B J**	**20**	**0.50**	**ng/sampl**
Perylene	**1.6**	**B J**	**20**	**0.68**	**ng/sampl**
Phenanthrene	**12**	**B J**	**20**	**0.39**	**ng/sampl**
Pyrene	**19**	**B J**	**20**	**0.45**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
Naphthalene-d8	85		15 - 120
2-Methylnaphthalene-d10	93		20 - 120
Acenaphthylene-d8	107		20 - 120
Phenanthrene-d10	111		30 - 120
Fluoranthene-d10	108		30 - 120
Benzo(a)anthracene-d12	110		30 - 120
Chrysene-d12	104		30 - 120
Benzo(b)fluoranthene-d12	111		30 - 120
Benzo(k)fluoranthene-d12	108		30 - 120
Benzo(a)pyrene-d12	109		30 - 120
Perylene-d12	109		30 - 120
Indeno(1,2,3-cd)pyrene-d12	124	*	30 - 120
Dibenz(ah)anthracene-d14	128	*	30 - 120
Benzo(ghi)perylene-d12	124	*	30 - 120

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	**Work Order #....:**	H2H211AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	97	30 - 140
Terphenyl-d14	92	30 - 140
13C6-Fluorene	102	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	**Work Order #....:**	H2H221AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.4**	**J**	**20**	**0.94**	**ng/sampl**
Acenaphthylene	**1.9**	**J**	**20**	**0.35**	**ng/sampl**
Anthracene	**3.9**	**J**	**20**	**0.60**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.40	ng/sampl
Benzo(b)fluoranthene	**4.8**	**J**	**20**	**1.1**	**ng/sampl**
Benzo(k)fluoranthene	**9.9**	**J**	**20**	**1.4**	**ng/sampl**
Benzo(ghi)perylene	**13**	**B J**	**20**	**0.73**	**ng/sampl**
Benzo(a)pyrene	**3.5**	**B J**	**20**	**1.7**	**ng/sampl**
Benzo(e)pyrene	**5.0**	**B J**	**20**	**1.4**	**ng/sampl**
Chrysene	**4.4**	**B J**	**20**	**0.44**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.69	ng/sampl
Fluoranthene	**26**	**B**	**20**	**0.19**	**ng/sampl**
Fluorene	**3.3**	**J**	**20**	**0.57**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	ND		20	0.77	ng/sampl
2-Methylnaphthalene	**12**	**B J**	**20**	**0.50**	**ng/sampl**
Naphthalene	**24**	**B J**	**20**	**0.41**	**ng/sampl**
Perylene	ND		20	1.6	ng/sampl
Phenanthrene	**51**	**B**	**20**	**0.52**	**ng/sampl**
Pyrene	**19**	**B J**	**20**	**0.19**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	93	15 - 120
2-Methylnaphthalene-d10	93	20 - 120
Acenaphthylene-d8	99	20 - 120
Phenanthrene-d10	106	30 - 120
Fluoranthene-d10	103	30 - 120
Benzo(a)anthracene-d12	104	30 - 120
Chrysene-d12	93	30 - 120
Benzo(b)fluoranthene-d12	107	30 - 120
Benzo(k)fluoranthene-d12	104	30 - 120
Benzo(a)pyrene-d12	103	30 - 120
Perylene-d12	100	30 - 120
Indeno(1,2,3-cd)pyrene-d12	109	30 - 120
Dibenz(ah)anthracene-d14	111	30 - 120
Benzo(ghi)perylene-d12	111	30 - 120

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	**Work Order #....:**	H2H221AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	103	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	**Work Order #....:**	H2H231AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	ND		20	0.76	ng/sampl
Acenaphthylene	ND		20	0.22	ng/sampl
Anthracene	**0.50**	**J**	**20**	**0.45**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.20	ng/sampl
Benzo(b)fluoranthene	**41**	**B**	**20**	**0.47**	**ng/sampl**
Benzo(k)fluoranthene	ND		20	0.58	ng/sampl
Benzo(ghi)perylene	**2.0**	**J**	**20**	**0.84**	**ng/sampl**
Benzo(a)pyrene	ND		20	0.67	ng/sampl
Benzo(e)pyrene	ND		20	0.57	ng/sampl
Chrysene	ND		20	0.21	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.46	ng/sampl
Fluoranthene	**1.2**	**B J**	**20**	**0.27**	**ng/sampl**
Fluorene	**2.3**	**B J**	**20**	**0.49**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**1.9**	**J**	**20**	**0.90**	**ng/sampl**
2-Methylnaphthalene	**13**	**B J**	**20**	**0.43**	**ng/sampl**
Naphthalene	**180**	**B J**	**20**	**0.67**	**ng/sampl**
Perylene	ND		20	0.60	ng/sampl
Phenanthrene	**5.5**	**B J**	**20**	**0.39**	**ng/sampl**
Pyrene	**1.4**	**B J**	**20**	**0.26**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
Naphthalene-d8	84		15 - 120
2-Methylnaphthalene-d10	92		20 - 120
Acenaphthylene-d8	105		20 - 120
Phenanthrene-d10	104		30 - 120
Fluoranthene-d10	106		30 - 120
Benzo(a)anthracene-d12	108		30 - 120
Chrysene-d12	101		30 - 120
Benzo(b)fluoranthene-d12	103		30 - 120
Benzo(k)fluoranthene-d12	109		30 - 120
Benzo(a)pyrene-d12	109		30 - 120
Perylene-d12	108		30 - 120
Indeno(1,2,3-cd)pyrene-d12	123	*	30 - 120
Dibenz(ah)anthracene-d14	126	*	30 - 120
Benzo(ghi)perylene-d12	119		30 - 120

STL Knoxville - ACS

Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	**Work Order #....:**	H2H231AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	95	30 - 140
Terphenyl-d14	95	30 - 140
13C6-Fluorene	98	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	**Work Order #....:**	H2H241AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**2.0**	**B J**	**20**	**0.65**	**ng/sampl**
Acenaphthylene	**3.3**	**J**	**20**	**0.24**	**ng/sampl**
Anthracene	ND		20	0.37	ng/sampl
Benzo(a)anthracene	ND		20	0.21	ng/sampl
Benzo(b)fluoranthene	**4.1**	**B J**	**20**	**0.85**	**ng/sampl**
Benzo(k)fluoranthene	ND		20	1.1	ng/sampl
Benzo(ghi)perylene	**7.5**	**J**	**20**	**0.31**	**ng/sampl**
Benzo(a)pyrene	**4.3**	**B J**	**20**	**1.2**	**ng/sampl**
Benzo(e)pyrene	**3.2**	**B J**	**20**	**1.0**	**ng/sampl**
Chrysene	ND		20	0.23	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.35	ng/sampl
Fluoranthene	**7.3**	**B J**	**20**	**0.11**	**ng/sampl**
Fluorene	**6.4**	**B J**	**20**	**0.38**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**4.1**	**B J**	**20**	**0.33**	**ng/sampl**
2-Methylnaphthalene	**17**	**B J**	**20**	**0.33**	**ng/sampl**
Naphthalene	**35**	**B J**	**20**	**0.29**	**ng/sampl**
Perylene	ND		20	1.1	ng/sampl
Phenanthrene	**49**	**B**	**20**	**0.32**	**ng/sampl**
Pyrene	**5.0**	**B J**	**20**	**0.11**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	97	15 - 120
2-Methylnaphthalene-d10	99	20 - 120
Acenaphthylene-d8	108	20 - 120
Phenanthrene-d10	114	30 - 120
Fluoranthene-d10	114	30 - 120
Benzo(a)anthracene-d12	120	30 - 120
Chrysene-d12	107	30 - 120
Benzo(b)fluoranthene-d12	108	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	116	30 - 120
Perylene-d12	113	30 - 120
Indeno(1,2,3-cd)pyrene-d12	113	30 - 120
Dibenz(ah)anthracene-d14	115	30 - 120
Benzo(ghi)perylene-d12	111	30 - 120

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	**Work Order #....:**	H2H241AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	**Work Order #....:**	H2H251AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**6.5**	**B J**	**20**	**2.0**	**ng/sampl**
Acenaphthylene	**5.9**	**J**	**20**	**0.71**	**ng/sampl**
Anthracene	**11**	**J**	**20**	**1.0**	**ng/sampl**
Benzo(a)anthracene	**6.1**	**J**	**20**	**0.33**	**ng/sampl**
Benzo(b)fluoranthene	**40**	**B**	**20**	**0.69**	**ng/sampl**
Benzo(k)fluoranthene	**3.9**	**J**	**20**	**0.88**	**ng/sampl**
Benzo(ghi)perylene	**3.7**	**J**	**20**	**1.1**	**ng/sampl**
Benzo(a)pyrene	ND		20	1.1	ng/sampl
Benzo(e)pyrene	**2.5**	**B J**	**20**	**0.97**	**ng/sampl**
Chrysene	**5.7**	**J**	**20**	**0.37**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.72	ng/sampl
Fluoranthene	**25**	**B**	**20**	**0.49**	**ng/sampl**
Fluorene	**11**	**B J**	**20**	**1.2**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**3.1**	**J**	**20**	**1.2**	**ng/sampl**
2-Methylnaphthalene	**67**	**B J**	**20**	**0.55**	**ng/sampl**
Perylene	**66**	**B**	**20**	**14**	**ng/sampl**
Phenanthrene	**65**	**B**	**20**	**0.89**	**ng/sampl**
Pyrene	**28**	**B J**	**20**	**0.48**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
2-Methylnaphthalene-d10	100		20 - 120
Acenaphthylene-d8	70		20 - 120
Phenanthrene-d10	106		30 - 120
Fluoranthene-d10	105		30 - 120
Benzo(a)anthracene-d12	111		30 - 120
Chrysene-d12	104		30 - 120
Benzo(b)fluoranthene-d12	107		30 - 120
Benzo(k)fluoranthene-d12	110		30 - 120
Benzo(a)pyrene-d12	96		30 - 120
Perylene-d12	7.4	*	30 - 120
Indeno(1,2,3-cd)pyrene-d12	126	*	30 - 120
Dibenz(ah)anthracene-d14	129	*	30 - 120
Benzo(ghi)perylene-d12	120		30 - 120

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	**Work Order #....:**	H2H251AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	104	30 - 140
Terphenyl-d14	96	30 - 140
13C6-Fluorene	106	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	**Work Order #....:**	H2H252AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	10
Prep Date....:	04/10/06	**Analysis Date....:**	04/28/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Naphthalene	**17000**	**B**	**200**	**1.8**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	84	15 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	**Work Order #....:**	H2H261AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	ND		20	1.3	ng/sampl
Acenaphthylene	ND		20	0.32	ng/sampl
Anthracene	ND		20	0.41	ng/sampl
Benzo(a)anthracene	ND		20	0.37	ng/sampl
Benzo(b)fluoranthene	**2.3**	**J**	**20**	**1.2**	**ng/sampl**
Benzo(k)fluoranthene	**4.7**	**J**	**20**	**1.5**	**ng/sampl**
Benzo(ghi)perylene	ND		20	0.67	ng/sampl
Benzo(a)pyrene	ND		20	1.9	ng/sampl
Benzo(e)pyrene	ND		20	1.6	ng/sampl
Chrysene	ND		20	0.43	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.65	ng/sampl
Fluoranthene	**3.4**	**B J**	**20**	**0.17**	**ng/sampl**
Fluorene	**1.8**	**J**	**20**	**0.52**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	ND		20	0.68	ng/sampl
2-Methylnaphthalene	**15**	**B J**	**20**	**0.80**	**ng/sampl**
Naphthalene	**72**	**B J**	**20**	**0.73**	**ng/sampl**
Perylene	ND		20	1.8	ng/sampl
Phenanthrene	**5.8**	**B J**	**20**	**0.36**	**ng/sampl**
Pyrene	**3.1**	**B J**	**20**	**0.16**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	80	15 - 120
2-Methylnaphthalene-d10	83	20 - 120
Acenaphthylene-d8	90	20 - 120
Phenanthrene-d10	91	30 - 120
Fluoranthene-d10	94	30 - 120
Benzo(a)anthracene-d12	94	30 - 120
Chrysene-d12	86	30 - 120
Benzo(b)fluoranthene-d12	97	30 - 120
Benzo(k)fluoranthene-d12	91	30 - 120
Benzo(a)pyrene-d12	88	30 - 120
Perylene-d12	88	30 - 120
Indeno(1,2,3-cd)pyrene-d12	94	30 - 120
Dibenz(ah)anthracene-d14	95	30 - 120
Benzo(ghi)perylene-d12	97	30 - 120

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	**Work Order #....:**	H2H261AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	82	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL Knoxville - ACS

Sample ID: A-5376 MEDIA CHECK XAD

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 014	**Work Order #....:**	H2H271AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/28/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Benzo(a)anthracene	ND		20	0.19	ng/sampl
Benzo(b)fluoranthene	**33**	**B**	**20**	**0.48**	**ng/sampl**
Benzo(k)fluoranthene	ND		20	0.62	ng/sampl
Benzo(a)pyrene	ND		20	0.76	ng/sampl
Chrysene	ND		20	0.20	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.48	ng/sampl
Indeno(1,2,3-cd)pyrene	ND		20	0.64	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
Benzo(a)anthracene-d12	100		30 - 120
Chrysene-d12	96		30 - 120
Benzo(b)fluoranthene-d12	107		30 - 120
Benzo(k)fluoranthene-d12	112		30 - 120
Benzo(a)pyrene-d12	102		30 - 120
Indeno(1,2,3-cd)pyrene-d12	126	*	30 - 120
Dibenz(ah)anthracene-d14	125	*	30 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Sample ID: A-5378 MEDIA CHECK FILTER

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 015	**Work Order #....:**	H2H281AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Benzo(a)anthracene	**0.98**	**B J**	**20**	**0.21**	**ng/sampl**
Benzo(b)fluoranthene	**3.2**	**B J**	**20**	**0.80**	**ng/sampl**
Benzo(k)fluoranthene	**2.5**	**B J**	**20**	**1.1**	**ng/sampl**
Benzo(a)pyrene	ND		20	1.4	ng/sampl
Chrysene	**1.1**	**B J**	**20**	**0.21**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.34	ng/sampl
Indeno(1,2,3-cd)pyrene	**3.1**	**B J**	**20**	**0.50**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)anthracene-d12	107	30 - 120
Chrysene-d12	104	30 - 120
Benzo(b)fluoranthene-d12	110	30 - 120
Benzo(k)fluoranthene-d12	107	30 - 120
Benzo(a)pyrene-d12	99	30 - 120
Indeno(1,2,3-cd)pyrene-d12	99	30 - 120
Dibenz(ah)anthracene-d14	98	30 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates SVOC

Lot #: H6D030245

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

May 8, 2006

ANALYTICAL METHODS SUMMARY

H6D030245

PARAMETER	ANALYTICAL METHOD
Organochlorine Pesticides	SW846 8081A
Semivolatile Organic Compounds by GC/MS	SW846 8270C

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030245

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H3J	001	G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A	03/28/06	
H2H3L	002	G-2921/2922-R1-MM5 BACK HALF COMPOSITE TRAIN A	03/28/06	
H2H3M	003	G-2923/2924-R1-MM5 IMPINGER COMPOSITE TRAIN A	03/28/06	
H2H3N	004	G-3017/3018-R2-MM5 FRONT HALF COMPOSITE TRAIN A	03/29/06	
H2H3P	005	G-3019/3020-R2-MM5 BACK HALF COMPOSITE TRAIN A	03/29/06	
H2H3Q	006	G-3021/3022-R2-MM5 IMPINGER COMPOSITE TRAIN A	03/29/06	
H2H3R	007	G-3023/3024-R2-MM5 FRONT HALF COMPOSITE BT A	03/28/06	
H2H3T	008	G-3025/3026-R2-MM5 BACK HALF COMPOSITE BT A	03/28/06	
H2H3V	009	G-3027/3028-R2-MM5 IMPINGER COMPOSITE BT A	03/28/06	
H2H3W	010	G-3029-R2-MM5 TRAIN A XAD-2 TRIP/RB	03/30/06	
H2H3X	011	G-3103/3104-R3-MM5 FRONT HALF COMPOSITE TRAIN A	03/30/06	
H2H30	012	G-3105/3106-R3-MM5 BACK HALF COMPOSITE TRAIN A	03/30/06	
H2H31	013	G-3107/3108-R3-MM5 IMPINGER COMPOSITE TRAIN A	03/30/06	
H2H32	014	A-5375 MEDIA CHECK XAD	03/28/06	
H2H33	015	A-5377 MEDIA CHECK FILTER	03/28/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030245

The results reported herein are applicable to the samples submitted for analysis only.

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The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met, and the test results shown in this report meet all applicable NELAC requirements.

Semivolatile Organic Sampling Train Preparation and Analysis

The semi-volatile organic sampling train components were extracted and analyzed using STL Knoxville standard operating procedures KNOX-OP-0009 and KNOX-MS-0016, based on the following methods:

- SW-846 3542, "Extraction of Semivolatile Analytes Collected Using Method 0010 (Modified Method 5 Sampling Train)"
- SW-846 8270C, "Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)"

The sampling trains are prepared as three analytical fractions: The particulate filter and front half of the filter holder, nozzle and probe solvent rinses are combined as one

PROJECT NARRATIVE
H6D030245

sample. The XAD-2 resin trap and back half of the filter holder, coil condenser and connecting glassware solvent rinses are combined as a separate sample. The condensate, impinger contents and their related glassware solvent rinses make up a third sample.

The filters and XAD components are spiked with the method 8270C surrogates and the components are Soxhlet extracted with methylene chloride. The filters and XAD extracts are concentrated to 0.5 mL and analyzed by GCMS. The condensates are spiked with the surrogates and extracted using a continuous liquid-liquid extractor. The condensate extracts are concentrated to 1.0 mL and analyzed by GCMS.

Sample results were calculated using the following equation:

$$\text{Result, ug} = (On\ column\ concentration, ng / uL)\, x \left(\frac{Volume\ final\ extract, uL}{1\ Sample} \right) x \left(\frac{1\,ug}{1000\,ng} \right) x\ DF\ x\ SF$$

Where: DF = Bench Dilution Factor
SF = Extraction Split Factor

*If the entire sample is not extracted, the fractional amount of sample used is entered into the above equation.

The following sample extracts were very acidic after concentration (pH was less than 2):
G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A
G-2923/2924-R1-MM5 IMPINGER COMPOSITE TRAIN A
G-3021/3022-R2-MM5 IMPINGER COMPOSITE TRAIN A
G-3107/3108-R3-MM5 IMPINGER COMPOSITE TRAIN A

These extracts, (including sample G-3027/3028-R2-MM5 IMPINGER COMPOSITE BT A that had a normal pH), were treated as follows to remove the acidity from the extracts prior to analysis. The method blank (H2PKP1AA) and LCS/LCSD (H2PKP1AC/H2PKP1AD) were treated in the same manner. 0.5 mL of the sample extracts (300 uL was taken from G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A) were brought to 10 mL with methylene chloride. The samples were then washed with 20 mL reagent water. The water layer was removed and the methylene chloride layer was filter through sodium sulfate. The extracts were then concentrated to a

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final volume of 0.5 mL (except G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A was taken to a final volume of 300 uL).

One or more surrogate recoveries for samples G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A, G-3021/3022-R2-MM5 IMPINGER COMPOSITE TRAIN A, and A-5377 MEDIA CHECK FILTER were outside QC limits. However, reextraction and reanalysis were not possible since the entire sample was consumed during extraction. Since the recoveries were low, the results for the sample(s) may be biased low

The laboratory control sample and laboratory control sample duplicate results for batch 6096189 (H2PKP1AC/H2PKP1AD) were outside control limits for control analytes 4-chloro-3-methylphenol, 4-nitrophenol and phenol. In addition, the laboratory control sample result for control analyte pentachlorophenol was outside control limits. However, re-extraction and reanalysis of the associated sample(s) were not possible since the entire sample was consumed during extraction.

Due to limited sample volume, a laboratory control sample/laboratory control sample duplicate was performed instead of a matrix spike/matrix spike duplicate in batches 6096185, 6096187 and 6096189.

Pesticides

Due to limited sample volume, a laboratory control sample/laboratory control sample duplicate was performed instead of a matrix spike/matrix spike duplicate.

Some samples had more than 40% difference between the primary column and the confirmation column for one or more analytes. The lower of the two results were reported.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-001 **Work Order #...:** H2H3J1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096185
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	ND	10	ug	0.77
Aniline	ND	20	ug	0.95
Anthracene	ND	10	ug	0.51
Benzaldehyde	ND	10	ug	2.6
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.82
Benzo(b)fluoranthene	ND	10	ug	1.4
Benzo(k)fluoranthene	ND	10	ug	2.1
Benzoic acid	ND	100	ug	42
Benzonitrile	ND	10	ug	2.4
Benzo(ghi)perylene	ND	10	ug	2.8
Benzo(a)pyrene	ND	10	ug	1.0
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.59
bis(2-Chloroethyl)-ether	ND	10	ug	0.76
bis(2-Ethylhexyl) phthalate	**5.7 J**	**10**	**ug**	**3.3**
4-Bromophenyl phenyl ether	ND	10	ug	0.53
Butyl benzyl phthalate	ND	10	ug	1.1
Carbazole	ND	10	ug	0.76
4-Chloroaniline	ND	10	ug	1.2
4-Chloro-3-methylphenol	ND	10	ug	1.0
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.98
4-Chlorophenyl phenyl ether	ND	10	ug	0.51
Chrysene	ND	10	ug	0.88
Dibenz(a,h)anthracene	ND	10	ug	2.0
Dibenzofuran	ND	10	ug	0.53
Di-n-butyl phthalate	ND	10	ug	0.71
1,2-Dichlorobenzene	ND	10	ug	0.84
1,3-Dichlorobenzene	ND	10	ug	1.2
1,4-Dichlorobenzene	ND	10	ug	1.1
3,3'-Dichlorobenzidine	ND	50	ug	2.7

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STL Knoxville - ACS

Client Sample ID: G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-001 **Work Order #...:** H2H3J1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	1.5
Diethyl phthalate	ND	10	ug	1.5
2,4-Dimethylphenol	ND	10	ug	2.9
Dimethyl phthalate	ND	10	ug	0.63
1,3-Dinitrobenzene	ND	10	ug	0.59
4,6-Dinitro-2-methylphenol	ND	50	ug	5.0
2,4-Dinitrophenol	ND	50	ug	5.9
2,4-Dinitrotoluene	ND	10	ug	1.6
2,6-Dinitrotoluene	ND	10	ug	1.3
Di-n-octyl phthalate	ND	10	ug	2.1
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.63
Fluoranthene	ND	10	ug	0.50
Fluorene	ND	10	ug	0.51
Hexachlorobenzene	ND	10	ug	0.56
Hexachlorobutadiene	ND	10	ug	1.4
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	2.5
Indeno(1,2,3-cd)pyrene	ND	10	ug	2.1
Isophorone	ND	10	ug	0.66
2-Methylnaphthalene	ND	10	ug	0.56
2-Methylphenol	ND	10	ug	2.3
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.3
Naphthalene	ND	10	ug	0.50
2-Nitroaniline	ND	50	ug	0.56
3-Nitroaniline	ND	50	ug	3.8
4-Nitroaniline	ND	50	ug	2.3
Nitrobenzene	ND	10	ug	0.73
2-Nitrophenol	ND	10	ug	3.2
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.72
N-Nitrosodiphenylamine	ND	10	ug	0.60
N-Nitrosodi-n-propylamine	ND	10	ug	0.73
Pentachlorobenzene	ND	10	ug	0.52
Pentachloronitrobenzene	ND	10	ug	0.76
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.51
Phenol	ND	10	ug	1.1
2,2'-oxybis(1-Chloropropane)	ND	10	ug	1.0

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STL Knoxville - ACS

Client Sample ID: G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-001 **Work Order #...:** H2H3J1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.74
Pyridine	ND	20	ug	0.89
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.87
1,2,4-Trichloro-benzene	ND	10	ug	0.73
2,4,5-Trichloro-phenol	ND	10	ug	2.3
2,4,6-Trichloro-phenol	ND	10	ug	1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	17 *	(19 - 100)
Phenol-d5	15	(15 - 124)
Nitrobenzene-d5	19 *	(35 - 122)
2-Fluorobiphenyl	26 *	(34 - 115)
2,4,6-Tribromophenol	31 *	(33 - 130)
Terphenyl-d14	40	(28 - 132)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-001 **Work Order #:** H2H3J1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
3-Penten-2-one, 4-methyl-	141-79-7	95 NJ	M	2.4255	ug
Unknown		4.5 NJ	M	2.5254	ug
Unknown		7.4 NJ	M	2.7017	ug
Unknown		52 NJ	M	2.7428	ug
Unknown		5.3 NJ	M	2.9132	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2921/2922-R1-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-002 **Work Order #...:** H2H3L1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096187
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	**3.9 J**	**10**	**ug**	**2.4**
Aniline	ND	20	ug	7.3
Anthracene	ND	10	ug	0.50
Benzaldehyde	**6.4 J**	**10**	**ug**	**2.0**
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.58
Benzo(b)fluoranthene	ND	10	ug	1.1
Benzo(k)fluoranthene	ND	10	ug	1.6
Benzoic acid	ND	100	ug	46
Benzonitrile	ND	10	ug	1.7
Benzo(ghi)perylene	ND	10	ug	0.62
Benzo(a)pyrene	ND	10	ug	0.50
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.50
bis(2-Chloroethyl)-ether	ND	10	ug	0.56
bis(2-Ethylhexyl) phthalate	ND	20	ug	10
4-Bromophenyl phenyl ether	ND	10	ug	0.50
Butyl benzyl phthalate	ND	10	ug	0.61
Carbazole	ND	10	ug	0.64
4-Chloroaniline	ND	20	ug	6.0
4-Chloro-3-methylphenol	ND	10	ug	0.62
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.50
4-Chlorophenyl phenyl ether	ND	10	ug	0.50
Chrysene	ND	10	ug	0.64
Dibenz(a,h)anthracene	ND	10	ug	0.60
Dibenzofuran	ND	10	ug	0.50
Di-n-butyl phthalate	ND	20	ug	10
1,2-Dichlorobenzene	ND	10	ug	0.51
1,3-Dichlorobenzene	ND	10	ug	0.57
1,4-Dichlorobenzene	ND	10	ug	0.53
3,3'-Dichlorobenzidine	ND	50	ug	7.4

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STL Knoxville - ACS

Client Sample ID: G-2921/2922-R1-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-002 **Work Order #...:** H2H3L1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	0.50
Diethyl phthalate	ND	10	ug	0.73
2,4-Dimethylphenol	ND	10	ug	6.3
Dimethyl phthalate	ND	10	ug	0.50
1,3-Dinitrobenzene	ND	10	ug	0.52
4,6-Dinitro-2-methylphenol	ND	50	ug	8.7
2,4-Dinitrophenol	ND	50	ug	22
2,4-Dinitrotoluene	ND	10	ug	0.50
2,6-Dinitrotoluene	ND	10	ug	0.50
Di-n-octyl phthalate	ND	10	ug	0.56
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.50
Fluoranthene	ND	10	ug	0.54
Fluorene	ND	10	ug	0.50
Hexachlorobenzene	ND	10	ug	0.50
Hexachlorobutadiene	ND	10	ug	0.74
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	0.54
Indeno(1,2,3-cd)pyrene	ND	10	ug	0.54
Isophorone	ND	10	ug	0.50
2-Methylnaphthalene	ND	10	ug	0.50
2-Methylphenol	ND	10	ug	3.0
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.0
Naphthalene	ND	10	ug	0.60
2-Nitroaniline	ND	50	ug	0.50
3-Nitroaniline	ND	50	ug	2.0
4-Nitroaniline	ND	50	ug	2.0
Nitrobenzene	ND	10	ug	0.57
2-Nitrophenol	ND	10	ug	0.50
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.50
N-Nitrosodiphenylamine	ND	10	ug	0.87
N-Nitrosodi-n-propylamine	ND	10	ug	0.50
Pentachlorobenzene	ND	10	ug	0.50
Pentachloronitrobenzene	ND	50	ug	0.50
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.50
Phenol	ND	10	ug	0.90
2,2'-oxybis(1-Chloropropane)	ND	10	ug	0.76

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STL Knoxville - ACS

Client Sample ID: G-2921/2922-R1-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-002 **Work Order #...:** H2H3L1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.53
Pyridine	ND	20	ug	0.74
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.50
1,2,4-Trichloro-benzene	ND	10	ug	0.59
2,4,5-Trichloro-phenol	ND	10	ug	1.3
2,4,6-Trichloro-phenol	ND	10	ug	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	51	(19 - 100)
Phenol-d5	55	(15 - 124)
Nitrobenzene-d5	53	(35 - 122)
2-Fluorobiphenyl	63	(34 - 115)
2,4,6-Tribromophenol	56	(33 - 130)
Terphenyl-d14	69	(28 - 132)
13C6-Naphthalene	70	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2921/2922-R1-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-002 **Work Order #:** H2H3L1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		70 NJ	M	2.1494	ug
Toluene	108-88-3	26 NJ	M	2.2316	ug
Methane, dibromochloro-	124-48-1	9.7 NJ	M	2.4314	ug
Tetrachloroethylene	127-18-4	75 NJ	M	2.543	ug
Unknown		4.1 NJ	M	2.6018	ug
Unknown		9.3 NJ	M	2.6547	ug
Heptane, 2,5-dimethyl-	2216-30-0	18 NJ	M	2.7075	ug
Unknown		590 NJ	M	2.7781	ug
Benzene, chloro-	108-90-7	420 NJ	M	2.8251	ug
Methane, tribromo-	75-25-2	10 NJ	M	3.1365	ug
Benzaldehyde, 4-ethyl-	4748-78-1	5.9 NJ	M	5.5337	ug
Phosphine imide, P,P,P-triphen	2240-47-3	4.8 NJ	M	12.114	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2923/2924-R1-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-003 **Work Order #...:** H2H3M1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096189
Dilution Factor: 2.41 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	24	ug	1.8
Acenaphthylene	ND	24	ug	1.5
Acetophenone	ND	24	ug	2.4
Aniline	ND	48	ug	17
Anthracene	ND	24	ug	1.5
Benzaldehyde	ND	24	ug	2.0
Benzidine	ND	240	ug	60
Benzo(a)anthracene	ND	24	ug	1.6
Benzo(b)fluoranthene	ND	24	ug	3.9
Benzo(k)fluoranthene	ND	24	ug	2.7
Benzoic acid	ND	120	ug	8.7
Benzonitrile	ND	24	ug	2.4
Benzo(ghi)perylene	ND	24	ug	2.0
Benzo(a)pyrene	ND	24	ug	1.6
Benzyl alcohol	ND	24	ug	1.8
bis(2-Chloroethoxy) methane	ND	24	ug	1.8
bis(2-Chloroethyl)-ether	ND	24	ug	1.5
bis(2-Ethylhexyl) phthalate	**18 J**	**24**	**ug**	**1.9**
4-Bromophenyl phenyl ether	ND	24	ug	1.3
Butyl benzyl phthalate	ND	24	ug	2.1
Carbazole	ND	24	ug	2.0
4-Chloroaniline	ND	24	ug	7.3
4-Chloro-3-methylphenol	ND	24	ug	6.0
2-Chloronaphthalene	ND	24	ug	1.3
2-Chlorophenol	ND	24	ug	1.5
4-Chlorophenyl phenyl ether	ND	24	ug	2.9
Chrysene	ND	24	ug	1.2
Dibenz(a,h)anthracene	ND	24	ug	2.6
Dibenzofuran	ND	24	ug	2.7
Di-n-butyl phthalate	ND	24	ug	2.1
1,2-Dichlorobenzene	ND	24	ug	1.6
1,3-Dichlorobenzene	ND	24	ug	1.3
1,4-Dichlorobenzene	ND	24	ug	1.9
3,3'-Dichlorobenzidine	ND	120	ug	7.1

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STL Knoxville - ACS

Client Sample ID: G-2923/2924-R1-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-003 **Work Order #...:** H2H3M1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	24	ug	2.1
Diethyl phthalate	ND	24	ug	1.3
2,4-Dimethylphenol	ND	24	ug	1.4
Dimethyl phthalate	ND	24	ug	1.2
1,3-Dinitrobenzene	ND	24	ug	2.7
4,6-Dinitro-2-methylphenol	ND	120	ug	1.3
2,4-Dinitrophenol	ND	120	ug	3.7
2,4-Dinitrotoluene	ND	24	ug	2.5
2,6-Dinitrotoluene	ND	24	ug	1.9
Di-n-octyl phthalate	ND	24	ug	2.3
Diphenylamine	ND	24	ug	2.7
1,2-Diphenylhydrazine	ND	24	ug	1.3
Fluoranthene	ND	24	ug	1.6
Fluorene	ND	24	ug	2.5
Hexachlorobenzene	ND	24	ug	2.4
Hexachlorobutadiene	ND	24	ug	1.8
Hexachlorocyclopentadiene	ND	120	ug	6.0
Hexachloroethane	ND	24	ug	1.8
Indeno(1,2,3-cd)pyrene	ND	24	ug	2.1
Isophorone	ND	24	ug	1.6
2-Methylnaphthalene	ND	24	ug	2.1
2-Methylphenol	ND	24	ug	1.9
3-Methylphenol & 4-Methylphenol	ND	24	ug	2.0
Naphthalene	ND	24	ug	1.6
2-Nitroaniline	ND	120	ug	2.6
3-Nitroaniline	ND	120	ug	4.3
4-Nitroaniline	ND	120	ug	3.5
Nitrobenzene	ND	24	ug	1.5
2-Nitrophenol	ND	24	ug	2.4
4-Nitrophenol	ND	120	ug	3.5
N-Nitrosodimethylamine	ND	24	ug	2.0
N-Nitrosodiphenylamine	ND	24	ug	1.3
N-Nitrosodi-n-propylamine	ND	24	ug	2.1
Pentachlorobenzene	ND	24	ug	2.1
Pentachloronitrobenzene	ND	24	ug	2.4
Pentachlorophenol	ND	120	ug	3.2
Phenanthrene	ND	24	ug	1.7
Phenol	ND	24	ug	2.0
2,2'-oxybis(1-Chloropropane)	ND	24	ug	1.6

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STL Knoxville - ACS

Client Sample ID: G-2923/2924-R1-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-003 **Work Order #...:** H2H3M1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	24	ug	1.3
Pyridine	ND	48	ug	4.9
1,2,4,5-Tetrachloro-benzene	ND	24	ug	2.0
1,2,4-Trichloro-benzene	ND	24	ug	2.0
2,4,5-Trichloro-phenol	ND	24	ug	2.0
2,4,6-Trichloro-phenol	ND	24	ug	2.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(19 - 100)
Phenol-d5	78	(15 - 124)
Nitrobenzene-d5	98	(35 - 122)
2-Fluorobiphenyl	118 *	(34 - 115)
2,4,6-Tribromophenol	123	(33 - 130)
Terphenyl-d14	153 *	(28 - 132)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2923/2924-R1-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-003 **Work Order #:** H2H3M1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
3-Penten-2-one, (E)-	3102-33-8	22 NJ	M	2.026	ug
3-Penten-2-one, 4-methyl-	141-79-7	230 NJ	M	2.4255	ug
Unknown		40 NJ	M	2.5254	ug
Unknown		18 NJ	M	2.5724	ug
Octane, 2-methyl-	3221-61-2	13 NJ	M	2.6488	ug
Heptane, 2,5-dimethyl-	2216-30-0	24 NJ	M	2.7017	ug
Unknown		1400 NJ	M	2.7781	ug
Unknown		47 NJ	M	4.5642	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3017/3018-R2-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-004 **Work Order #...:** H2H3N1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096185
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	ND	10	ug	0.77
Aniline	ND	20	ug	0.95
Anthracene	ND	10	ug	0.51
Benzaldehyde	ND	10	ug	2.6
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.82
Benzo(b)fluoranthene	ND	10	ug	1.4
Benzo(k)fluoranthene	ND	10	ug	2.1
Benzoic acid	ND	100	ug	42
Benzonitrile	ND	10	ug	2.4
Benzo(ghi)perylene	ND	10	ug	2.8
Benzo(a)pyrene	ND	10	ug	1.0
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.59
bis(2-Chloroethyl)-ether	ND	10	ug	0.76
bis(2-Ethylhexyl) phthalate	ND	10	ug	3.3
4-Bromophenyl phenyl ether	ND	10	ug	0.53
Butyl benzyl phthalate	ND	10	ug	1.1
Carbazole	ND	10	ug	0.76
4-Chloroaniline	ND	10	ug	1.2
4-Chloro-3-methylphenol	ND	10	ug	1.0
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.98
4-Chlorophenyl phenyl ether	ND	10	ug	0.51
Chrysene	ND	10	ug	0.88
Dibenz(a,h)anthracene	ND	10	ug	2.0
Dibenzofuran	ND	10	ug	0.53
Di-n-butyl phthalate	ND	10	ug	0.71
1,2-Dichlorobenzene	ND	10	ug	0.84
1,3-Dichlorobenzene	ND	10	ug	1.2
1,4-Dichlorobenzene	ND	10	ug	1.1
3,3'-Dichlorobenzidine	ND	50	ug	2.7

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3017/3018-R2-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-004 **Work Order #...:** H2H3N1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	1.5
Diethyl phthalate	ND	10	ug	1.5
2,4-Dimethylphenol	ND	10	ug	2.9
Dimethyl phthalate	ND	10	ug	0.63
1,3-Dinitrobenzene	ND	10	ug	0.59
4,6-Dinitro-2-methylphenol	ND	50	ug	5.0
2,4-Dinitrophenol	ND	50	ug	5.9
2,4-Dinitrotoluene	ND	10	ug	1.6
2,6-Dinitrotoluene	ND	10	ug	1.3
Di-n-octyl phthalate	ND	10	ug	2.1
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.63
Fluoranthene	ND	10	ug	0.50
Fluorene	ND	10	ug	0.51
Hexachlorobenzene	ND	10	ug	0.56
Hexachlorobutadiene	ND	10	ug	1.4
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	2.5
Indeno(1,2,3-cd)pyrene	ND	10	ug	2.1
Isophorone	ND	10	ug	0.66
2-Methylnaphthalene	ND	10	ug	0.56
2-Methylphenol	ND	10	ug	2.3
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.3
Naphthalene	ND	10	ug	0.50
2-Nitroaniline	ND	50	ug	0.56
3-Nitroaniline	ND	50	ug	3.8
4-Nitroaniline	ND	50	ug	2.3
Nitrobenzene	ND	10	ug	0.73
2-Nitrophenol	ND	10	ug	3.2
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.72
N-Nitrosodiphenylamine	ND	10	ug	0.60
N-Nitrosodi-n-propylamine	ND	10	ug	0.73
Pentachlorobenzene	ND	10	ug	0.52
Pentachloronitrobenzene	ND	10	ug	0.76
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.51
Phenol	ND	10	ug	1.1
2,2'-oxybis(1-Chloropropane)	ND	10	ug	1.0

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STL Knoxville - ACS

Client Sample ID: G-3017/3018-R2-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-004 **Work Order #...:** H2H3N1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.74
Pyridine	ND	20	ug	0.89
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.87
1,2,4-Trichloro-benzene	ND	10	ug	0.73
2,4,5-Trichloro-phenol	ND	10	ug	2.3
2,4,6-Trichloro-phenol	ND	10	ug	1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	39	(19 - 100)
Phenol-d5	41	(15 - 124)
Nitrobenzene-d5	43	(35 - 122)
2-Fluorobiphenyl	49	(34 - 115)
2,4,6-Tribromophenol	46	(33 - 130)
Terphenyl-d14	64	(28 - 132)

STL Knoxville - ACS

G-3017/3018-R2-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-004 **Work Order #:** H2H3N1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Furan, 2,5-dimethyl-	625-86-5	4.6 NJ	M	1.8496	ug
Unknown		5.4 NJ	M	1.9671	ug
Unknown		4.8 NJ	M	2.5253	ug
Unknown		8.6 NJ	M	2.6545	ug
Heptane, 2,5-dimethyl-	2216-30-0	18 NJ	M	2.7074	ug
Unknown		82 NJ	M	2.7485	ug
3-Hexene-2,5-dione	4436-75-3	5.2 NJ	M	3.671	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3019/3020-R2-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-005 **Work Order #...:** H2H3P1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096187
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	**4.0 J**	**10**	**ug**	**2.4**
Aniline	ND	20	ug	7.3
Anthracene	ND	10	ug	0.50
Benzaldehyde	**5.1 J**	**10**	**ug**	**2.0**
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.58
Benzo(b)fluoranthene	ND	10	ug	1.1
Benzo(k)fluoranthene	ND	10	ug	1.6
Benzoic acid	ND	100	ug	46
Benzonitrile	ND	10	ug	1.7
Benzo(ghi)perylene	ND	10	ug	0.62
Benzo(a)pyrene	ND	10	ug	0.50
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.50
bis(2-Chloroethyl)-ether	ND	10	ug	0.56
bis(2-Ethylhexyl) phthalate	ND	20	ug	10
4-Bromophenyl phenyl ether	ND	10	ug	0.50
Butyl benzyl phthalate	ND	10	ug	0.61
Carbazole	ND	10	ug	0.64
4-Chloroaniline	ND	20	ug	6.0
4-Chloro-3-methylphenol	ND	10	ug	0.62
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.50
4-Chlorophenyl phenyl ether	ND	10	ug	0.50
Chrysene	ND	10	ug	0.64
Dibenz(a,h)anthracene	ND	10	ug	0.60
Dibenzofuran	ND	10	ug	0.50
Di-n-butyl phthalate	ND	20	ug	10
1,2-Dichlorobenzene	ND	10	ug	0.51
1,3-Dichlorobenzene	ND	10	ug	0.57
1,4-Dichlorobenzene	ND	10	ug	0.53
3,3'-Dichlorobenzidine	ND	50	ug	7.4

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STL Knoxville - ACS

Client Sample ID: G-3019/3020-R2-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-005 **Work Order #...:** H2H3P1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	0.50
Diethyl phthalate	ND	10	ug	0.73
2,4-Dimethylphenol	ND	10	ug	6.3
Dimethyl phthalate	ND	10	ug	0.50
1,3-Dinitrobenzene	ND	10	ug	0.52
4,6-Dinitro-2-methylphenol	ND	50	ug	8.7
2,4-Dinitrophenol	ND	50	ug	22
2,4-Dinitrotoluene	ND	10	ug	0.50
2,6-Dinitrotoluene	ND	10	ug	0.50
Di-n-octyl phthalate	ND	10	ug	0.56
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.50
Fluoranthene	ND	10	ug	0.54
Fluorene	ND	10	ug	0.50
Hexachlorobenzene	ND	10	ug	0.50
Hexachlorobutadiene	ND	10	ug	0.74
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	0.54
Indeno(1,2,3-cd)pyrene	ND	10	ug	0.54
Isophorone	ND	10	ug	0.50
2-Methylnaphthalene	ND	10	ug	0.50
2-Methylphenol	ND	10	ug	3.0
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.0
Naphthalene	ND	10	ug	0.60
2-Nitroaniline	ND	50	ug	0.50
3-Nitroaniline	ND	50	ug	2.0
4-Nitroaniline	ND	50	ug	2.0
Nitrobenzene	ND	10	ug	0.57
2-Nitrophenol	ND	10	ug	0.50
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.50
N-Nitrosodiphenylamine	ND	10	ug	0.87
N-Nitrosodi-n-propylamine	ND	10	ug	0.50
Pentachlorobenzene	ND	10	ug	0.50
Pentachloronitrobenzene	ND	50	ug	0.50
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.50
Phenol	ND	10	ug	0.90
2,2'-oxybis(1-Chloropropane)	ND	10	ug	0.76

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STL Knoxville - ACS

Client Sample ID: G-3019/3020-R2-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-005 **Work Order #...:** H2H3P1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.53
Pyridine	ND	20	ug	0.74
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.50
1,2,4-Trichloro-benzene	ND	10	ug	0.59
2,4,5-Trichloro-phenol	ND	10	ug	1.3
2,4,6-Trichloro-phenol	ND	10	ug	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	40	(19 - 100)
Phenol-d5	44	(15 - 124)
Nitrobenzene-d5	42	(35 - 122)
2-Fluorobiphenyl	53	(34 - 115)
2,4,6-Tribromophenol	59	(33 - 130)
Terphenyl-d14	77	(28 - 132)
13C6-Naphthalene	56	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3019/3020-R2-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-005 **Work Order #:** H2H3P1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		54 NJ	M	2.1492	ug
Toluene	108-88-3	20 NJ	M	2.2315	ug
Methane, dibromochloro-	124-48-1	8.0 NJ	M	2.4313	ug
Octane, 2-methyl-	3221-61-2	6.1 NJ	M	2.6487	ug
Heptane, 2,5-dimethyl-	2216-30-0	12 NJ	M	2.7074	ug
Unknown		550 NJ	M	2.7721	ug
Benzene, chloro-	108-90-7	82 NJ	M	2.8249	ug
Methane, tribromo-	75-25-2	10 NJ	M	3.1363	ug
Benzoic acid, methyl ester	93-58-3	4.4 NJ	M	4.8814	ug
Benzaldehyde, 3-ethyl-	34246-54-3	5.9 NJ	M	5.5336	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3021/3022-R2-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-006 **Work Order #...:** H2H3Q1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096189
Dilution Factor: 2.23 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	22	ug	1.7
Acenaphthylene	ND	22	ug	1.4
Acetophenone	ND	22	ug	2.2
Aniline	ND	45	ug	16
Anthracene	ND	22	ug	1.4
Benzaldehyde	ND	22	ug	1.8
Benzidine	ND	220	ug	56
Benzo(a)anthracene	ND	22	ug	1.5
Benzo(b)fluoranthene	ND	22	ug	3.6
Benzo(k)fluoranthene	ND	22	ug	2.5
Benzoic acid	ND	110	ug	8.0
Benzonitrile	ND	22	ug	2.2
Benzo(ghi)perylene	ND	22	ug	1.8
Benzo(a)pyrene	ND	22	ug	1.5
Benzyl alcohol	ND	22	ug	1.7
bis(2-Chloroethoxy) methane	ND	22	ug	1.7
bis(2-Chloroethyl)-ether	ND	22	ug	1.4
bis(2-Ethylhexyl) phthalate	**29**	**22**	**ug**	**1.8**
4-Bromophenyl phenyl ether	ND	22	ug	1.2
Butyl benzyl phthalate	ND	22	ug	1.9
Carbazole	ND	22	ug	1.9
4-Chloroaniline	ND	22	ug	6.8
4-Chloro-3-methylphenol	ND	22	ug	5.6
2-Chloronaphthalene	ND	22	ug	1.2
2-Chlorophenol	ND	22	ug	1.4
4-Chlorophenyl phenyl ether	ND	22	ug	2.7
Chrysene	ND	22	ug	1.1
Dibenz(a,h)anthracene	ND	22	ug	2.4
Dibenzofuran	ND	22	ug	2.5
Di-n-butyl phthalate	ND	22	ug	1.9
1,2-Dichlorobenzene	ND	22	ug	1.5
1,3-Dichlorobenzene	ND	22	ug	1.2
1,4-Dichlorobenzene	ND	22	ug	1.7
3,3'-Dichlorobenzidine	ND	110	ug	6.6

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STL Knoxville - ACS

Client Sample ID: G-3021/3022-R2-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-006 **Work Order #...:** H2H3Q1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	22	ug	2.0
Diethyl phthalate	ND	22	ug	1.2
2,4-Dimethylphenol	ND	22	ug	1.3
Dimethyl phthalate	ND	22	ug	1.1
1,3-Dinitrobenzene	ND	22	ug	2.5
4,6-Dinitro-2-methylphenol	ND	110	ug	1.2
2,4-Dinitrophenol	ND	110	ug	3.4
2,4-Dinitrotoluene	ND	22	ug	2.3
2,6-Dinitrotoluene	ND	22	ug	1.8
Di-n-octyl phthalate	ND	22	ug	2.1
Diphenylamine	ND	22	ug	2.5
1,2-Diphenylhydrazine	ND	22	ug	1.2
Fluoranthene	ND	22	ug	1.5
Fluorene	ND	22	ug	2.3
Hexachlorobenzene	ND	22	ug	2.3
Hexachlorobutadiene	ND	22	ug	1.6
Hexachlorocyclopentadiene	ND	110	ug	5.6
Hexachloroethane	ND	22	ug	1.7
Indeno(1,2,3-cd)pyrene	ND	22	ug	1.9
Isophorone	ND	22	ug	1.5
2-Methylnaphthalene	ND	22	ug	1.9
2-Methylphenol	ND	22	ug	1.8
3-Methylphenol & 4-Methylphenol	ND	22	ug	1.9
Naphthalene	ND	22	ug	1.5
2-Nitroaniline	ND	110	ug	2.4
3-Nitroaniline	ND	110	ug	4.0
4-Nitroaniline	ND	110	ug	3.3
Nitrobenzene	ND	22	ug	1.4
2-Nitrophenol	ND	22	ug	2.3
4-Nitrophenol	ND	110	ug	3.3
N-Nitrosodimethylamine	ND	22	ug	1.9
N-Nitrosodiphenylamine	ND	22	ug	1.2
N-Nitrosodi-n-propylamine	ND	22	ug	2.0
Pentachlorobenzene	ND	22	ug	1.9
Pentachloronitrobenzene	ND	22	ug	2.2
Pentachlorophenol	ND	110	ug	2.9
Phenanthrene	ND	22	ug	1.6
Phenol	ND	22	ug	1.8
2,2'-oxybis(1-Chloropropane)	ND	22	ug	1.5

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STL Knoxville - ACS

Client Sample ID: G-3021/3022-R2-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-006 **Work Order #...:** H2H3Q1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	22	ug	1.2
Pyridine	ND	45	ug	4.5
1,2,4,5-Tetrachloro-benzene	ND	22	ug	1.8
1,2,4-Trichloro-benzene	ND	22	ug	1.8
2,4,5-Trichloro-phenol	ND	22	ug	1.8
2,4,6-Trichloro-phenol	ND	22	ug	2.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	57	(19 - 100)
Phenol-d5	53	(15 - 124)
Nitrobenzene-d5	66	(35 - 122)
2-Fluorobiphenyl	82	(34 - 115)
2,4,6-Tribromophenol	103	(33 - 130)
Terphenyl-d14	136 *	(28 - 132)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

G-3021/3022-R2-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-006 **Work Order #:** H2H3Q1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		21 NJ	M	2.0259	ug
3-Hexen-2-one	763-93-9	620 NJ	M	2.4313	ug
Unknown		38 NJ	M	2.5253	ug
Heptane, 2,5-dimethyl-	2216-30-0	11 NJ	M	2.7015	ug
Unknown		400 NJ	M	2.7486	ug
Unknown		17 NJ	M	2.9542	ug
Unknown		11 NJ	M	3.1657	ug
Unknown		16 NJ	M	4.8579	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3023/3024-R2-MM5 FRONT HALF COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-007 **Work Order #...:** H2H3R1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096185
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	ND	10	ug	0.77
Aniline	ND	20	ug	0.95
Anthracene	ND	10	ug	0.51
Benzaldehyde	ND	10	ug	2.6
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.82
Benzo(b)fluoranthene	ND	10	ug	1.4
Benzo(k)fluoranthene	ND	10	ug	2.1
Benzoic acid	ND	100	ug	42
Benzonitrile	ND	10	ug	2.4
Benzo(ghi)perylene	ND	10	ug	2.8
Benzo(a)pyrene	ND	10	ug	1.0
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.59
bis(2-Chloroethyl)-ether	ND	10	ug	0.76
bis(2-Ethylhexyl) phthalate	ND	10	ug	3.3
4-Bromophenyl phenyl ether	ND	10	ug	0.53
Butyl benzyl phthalate	ND	10	ug	1.1
Carbazole	ND	10	ug	0.76
4-Chloroaniline	ND	10	ug	1.2
4-Chloro-3-methylphenol	ND	10	ug	1.0
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.98
4-Chlorophenyl phenyl ether	ND	10	ug	0.51
Chrysene	ND	10	ug	0.88
Dibenz(a,h)anthracene	ND	10	ug	2.0
Dibenzofuran	ND	10	ug	0.53
Di-n-butyl phthalate	ND	10	ug	0.71
1,2-Dichlorobenzene	ND	10	ug	0.84
1,3-Dichlorobenzene	ND	10	ug	1.2
1,4-Dichlorobenzene	ND	10	ug	1.1
3,3'-Dichlorobenzidine	ND	50	ug	2.7

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STL Knoxville - ACS

Client Sample ID: G-3023/3024-R2-MM5 FRONT HALF COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-007 **Work Order #...:** H2H3R1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	1.5
Diethyl phthalate	ND	10	ug	1.5
2,4-Dimethylphenol	ND	10	ug	2.9
Dimethyl phthalate	ND	10	ug	0.63
1,3-Dinitrobenzene	ND	10	ug	0.59
4,6-Dinitro-2-methylphenol	ND	50	ug	5.0
2,4-Dinitrophenol	ND	50	ug	5.9
2,4-Dinitrotoluene	ND	10	ug	1.6
2,6-Dinitrotoluene	ND	10	ug	1.3
Di-n-octyl phthalate	ND	10	ug	2.1
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.63
Fluoranthene	ND	10	ug	0.50
Fluorene	ND	10	ug	0.51
Hexachlorobenzene	ND	10	ug	0.56
Hexachlorobutadiene	ND	10	ug	1.4
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	2.5
Indeno(1,2,3-cd)pyrene	ND	10	ug	2.1
Isophorone	ND	10	ug	0.66
2-Methylnaphthalene	ND	10	ug	0.56
2-Methylphenol	ND	10	ug	2.3
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.3
Naphthalene	ND	10	ug	0.50
2-Nitroaniline	ND	50	ug	0.56
3-Nitroaniline	ND	50	ug	3.8
4-Nitroaniline	ND	50	ug	2.3
Nitrobenzene	ND	10	ug	0.73
2-Nitrophenol	ND	10	ug	3.2
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.72
N-Nitrosodiphenylamine	ND	10	ug	0.60
N-Nitrosodi-n-propylamine	ND	10	ug	0.73
Pentachlorobenzene	ND	10	ug	0.52
Pentachloronitrobenzene	ND	10	ug	0.76
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.51
Phenol	ND	10	ug	1.1
2,2'-oxybis(1-Chloropropane)	ND	10	ug	1.0

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STL Knoxville - ACS

Client Sample ID: G-3023/3024-R2-MM5 FRONT HALF COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-007 **Work Order #...:** H2H3R1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.74
Pyridine	ND	20	ug	0.89
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.87
1,2,4-Trichloro-benzene	ND	10	ug	0.73
2,4,5-Trichloro-phenol	ND	10	ug	2.3
2,4,6-Trichloro-phenol	ND	10	ug	1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	51	(19 - 100)
Phenol-d5	56	(15 - 124)
Nitrobenzene-d5	56	(35 - 122)
2-Fluorobiphenyl	65	(34 - 115)
2,4,6-Tribromophenol	48	(33 - 130)
Terphenyl-d14	83	(28 - 132)

STL Knoxville - ACS

G-3023/3024-R2-MM5 FRONT HALF COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-007 **Work Order #:** H2H3R1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		7.7 NJ	M	2.6546	ug
Heptane, 2,5-dimethyl-	2216-30-0	15 NJ	M	2.7075	ug
Unknown		10 NJ	M	2.7486	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3025/3026-R2-MM5 BACK HALF COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-008 **Work Order #...:** H2H3T1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096187
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	ND	10	ug	2.4
Aniline	ND	20	ug	7.3
Anthracene	ND	10	ug	0.50
Benzaldehyde	ND	10	ug	2.0
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.58
Benzo(b)fluoranthene	ND	10	ug	1.1
Benzo(k)fluoranthene	ND	10	ug	1.6
Benzoic acid	ND	100	ug	46
Benzonitrile	ND	10	ug	1.7
Benzo(ghi)perylene	ND	10	ug	0.62
Benzo(a)pyrene	ND	10	ug	0.50
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.50
bis(2-Chloroethyl)-ether	ND	10	ug	0.56
bis(2-Ethylhexyl) phthalate	ND	20	ug	10
4-Bromophenyl phenyl ether	ND	10	ug	0.50
Butyl benzyl phthalate	ND	10	ug	0.61
Carbazole	ND	10	ug	0.64
4-Chloroaniline	ND	20	ug	6.0
4-Chloro-3-methylphenol	ND	10	ug	0.62
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.50
4-Chlorophenyl phenyl ether	ND	10	ug	0.50
Chrysene	ND	10	ug	0.64
Dibenz(a,h)anthracene	ND	10	ug	0.60
Dibenzofuran	ND	10	ug	0.50
Di-n-butyl phthalate	ND	20	ug	10
1,2-Dichlorobenzene	ND	10	ug	0.51
1,3-Dichlorobenzene	ND	10	ug	0.57
1,4-Dichlorobenzene	ND	10	ug	0.53
3,3'-Dichlorobenzidine	ND	50	ug	7.4

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STL Knoxville - ACS

Client Sample ID: G-3025/3026-R2-MM5 BACK HALF COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-008 **Work Order #...:** H2H3T1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	0.50
Diethyl phthalate	ND	10	ug	0.73
2,4-Dimethylphenol	ND	10	ug	6.3
Dimethyl phthalate	ND	10	ug	0.50
1,3-Dinitrobenzene	ND	10	ug	0.52
4,6-Dinitro-2-methylphenol	ND	50	ug	8.7
2,4-Dinitrophenol	ND	50	ug	22
2,4-Dinitrotoluene	ND	10	ug	0.50
2,6-Dinitrotoluene	ND	10	ug	0.50
Di-n-octyl phthalate	ND	10	ug	0.56
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.50
Fluoranthene	ND	10	ug	0.54
Fluorene	ND	10	ug	0.50
Hexachlorobenzene	ND	10	ug	0.50
Hexachlorobutadiene	ND	10	ug	0.74
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	0.54
Indeno(1,2,3-cd)pyrene	ND	10	ug	0.54
Isophorone	ND	10	ug	0.50
2-Methylnaphthalene	ND	10	ug	0.50
2-Methylphenol	ND	10	ug	3.0
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.0
Naphthalene	ND	10	ug	0.60
2-Nitroaniline	ND	50	ug	0.50
3-Nitroaniline	ND	50	ug	2.0
4-Nitroaniline	ND	50	ug	2.0
Nitrobenzene	ND	10	ug	0.57
2-Nitrophenol	ND	10	ug	0.50
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.50
N-Nitrosodiphenylamine	ND	10	ug	0.87
N-Nitrosodi-n-propylamine	ND	10	ug	0.50
Pentachlorobenzene	ND	10	ug	0.50
Pentachloronitrobenzene	ND	50	ug	0.50
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.50
Phenol	ND	10	ug	0.90
2,2'-oxybis(1-Chloropropane)	ND	10	ug	0.76

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STL Knoxville - ACS

Client Sample ID: G-3025/3026-R2-MM5 BACK HALF COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-008 **Work Order #...:** H2H3T1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.53
Pyridine	ND	20	ug	0.74
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.50
1,2,4-Trichloro-benzene	ND	10	ug	0.59
2,4,5-Trichloro-phenol	ND	10	ug	1.3
2,4,6-Trichloro-phenol	ND	10	ug	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52	(19 - 100)
Phenol-d5	59	(15 - 124)
Nitrobenzene-d5	51	(35 - 122)
2-Fluorobiphenyl	70	(34 - 115)
2,4,6-Tribromophenol	58	(33 - 130)
Terphenyl-d14	85	(28 - 132)
13C6-Naphthalene	70	(50 - 150)

STL Knoxville - ACS

G-3025/3026-R2-MM5 BACK HALF COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-008 **Work Order #:** H2H3T1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	20 NJ	M	2.2317	ug
Unknown		6.2 NJ	M	2.6489	ug
Heptane, 2,5-dimethyl-	2216-30-0	11 NJ	M	2.7076	ug
Unknown		650 NJ	M	2.7782	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3027/3028-R2-MM5 IMPINGER COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-009 **Work Order #...:** H2H3V1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096189
Dilution Factor: 2 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	1.5
Acenaphthylene	ND	20	ug	1.2
Acetophenone	ND	20	ug	2.0
Aniline	ND	40	ug	14
Anthracene	ND	20	ug	1.2
Benzaldehyde	ND	20	ug	1.6
Benzidine	ND	200	ug	50
Benzo(a)anthracene	ND	20	ug	1.3
Benzo(b)fluoranthene	ND	20	ug	3.2
Benzo(k)fluoranthene	ND	20	ug	2.2
Benzoic acid	ND	100	ug	7.2
Benzonitrile	ND	20	ug	2.0
Benzo(ghi)perylene	ND	20	ug	1.6
Benzo(a)pyrene	ND	20	ug	1.3
Benzyl alcohol	ND	20	ug	1.5
bis(2-Chloroethoxy) methane	ND	20	ug	1.5
bis(2-Chloroethyl)-ether	ND	20	ug	1.3
bis(2-Ethylhexyl) phthalate	**2.2 J**	**20**	**ug**	**1.6**
4-Bromophenyl phenyl ether	ND	20	ug	1.1
Butyl benzyl phthalate	ND	20	ug	1.7
Carbazole	ND	20	ug	1.7
4-Chloroaniline	ND	20	ug	6.1
4-Chloro-3-methylphenol	ND	20	ug	5.0
2-Chloronaphthalene	ND	20	ug	1.1
2-Chlorophenol	ND	20	ug	1.3
4-Chlorophenyl phenyl ether	ND	20	ug	2.4
Chrysene	ND	20	ug	1.0
Dibenz(a,h)anthracene	ND	20	ug	2.2
Dibenzofuran	ND	20	ug	2.2
Di-n-butyl phthalate	ND	20	ug	1.7
1,2-Dichlorobenzene	ND	20	ug	1.3
1,3-Dichlorobenzene	ND	20	ug	1.1
1,4-Dichlorobenzene	ND	20	ug	1.5
3,3'-Dichlorobenzidine	ND	100	ug	5.9

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STL Knoxville - ACS

Client Sample ID: G-3027/3028-R2-MM5 IMPINGER COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-009 **Work Order #...:** H2H3V1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	20	ug	1.8
Diethyl phthalate	ND	20	ug	1.1
2,4-Dimethylphenol	ND	20	ug	1.2
Dimethyl phthalate	ND	20	ug	1.0
1,3-Dinitrobenzene	ND	20	ug	2.2
4,6-Dinitro-2-methylphenol	ND	100	ug	1.1
2,4-Dinitrophenol	ND	100	ug	3.0
2,4-Dinitrotoluene	ND	20	ug	2.1
2,6-Dinitrotoluene	ND	20	ug	1.6
Di-n-octyl phthalate	ND	20	ug	1.9
Diphenylamine	ND	20	ug	2.2
1,2-Diphenylhydrazine	ND	20	ug	1.1
Fluoranthene	ND	20	ug	1.3
Fluorene	ND	20	ug	2.1
Hexachlorobenzene	ND	20	ug	2.0
Hexachlorobutadiene	ND	20	ug	1.5
Hexachlorocyclopentadiene	ND	100	ug	5.0
Hexachloroethane	ND	20	ug	1.5
Indeno(1,2,3-cd)pyrene	ND	20	ug	1.7
Isophorone	ND	20	ug	1.4
2-Methylnaphthalene	ND	20	ug	1.7
2-Methylphenol	ND	20	ug	1.6
3-Methylphenol & 4-Methylphenol	ND	20	ug	1.7
Naphthalene	ND	20	ug	1.3
2-Nitroaniline	ND	100	ug	2.1
3-Nitroaniline	ND	100	ug	3.6
4-Nitroaniline	ND	100	ug	2.9
Nitrobenzene	ND	20	ug	1.3
2-Nitrophenol	ND	20	ug	2.0
4-Nitrophenol	ND	100	ug	2.9
N-Nitrosodimethylamine	ND	20	ug	1.7
N-Nitrosodiphenylamine	ND	20	ug	1.0
N-Nitrosodi-n-propylamine	ND	20	ug	1.8
Pentachlorobenzene	ND	20	ug	1.7
Pentachloronitrobenzene	ND	20	ug	2.0
Pentachlorophenol	ND	100	ug	2.6
Phenanthrene	ND	20	ug	1.4
Phenol	ND	20	ug	1.6
2,2'-oxybis(1-Chloropropane)	ND	20	ug	1.3

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STL Knoxville - ACS

Client Sample ID: G-3027/3028-R2-MM5 IMPINGER COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-009 **Work Order #...:** H2H3V1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	20	ug	1.1
Pyridine	ND	40	ug	4.0
1,2,4,5-Tetrachloro-benzene	ND	20	ug	1.6
1,2,4-Trichloro-benzene	ND	20	ug	1.6
2,4,5-Trichloro-phenol	ND	20	ug	1.6
2,4,6-Trichloro-phenol	ND	20	ug	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	81	(19 - 100)
Phenol-d5	75	(15 - 124)
Nitrobenzene-d5	93	(35 - 122)
2-Fluorobiphenyl	110	(34 - 115)
2,4,6-Tribromophenol	103	(33 - 130)
Terphenyl-d14	136 *	(28 - 132)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3027/3028-R2-MM5 IMPINGER COMPOSITE BT A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-009 **Work Order #:** H2H3V1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
3-Penten-2-one, (E)-	3102-33-8	14 NJ	M	2.0258	ug
3-Penten-2-one, 4-methyl-	141-79-7	110 NJ	M	2.4254	ug
Unknown		50 NJ	M	2.5253	ug
Heptane, 2,5-dimethyl-	2216-30-0	14 NJ	M	2.7015	ug
Unknown		360 NJ	M	2.7485	ug
1-Propene, 1,2,3-trichloro-, (	13116-57-9	8.7 NJ	M	3.624	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3029-R2-MM5 TRAIN A XAD-2 TRIP/RB

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-010 **Work Order #...:** H2H3W1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096187
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	ND	10	ug	2.4
Aniline	ND	20	ug	7.3
Anthracene	ND	10	ug	0.50
Benzaldehyde	ND	10	ug	2.0
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.58
Benzo(b)fluoranthene	ND	10	ug	1.1
Benzo(k)fluoranthene	ND	10	ug	1.6
Benzoic acid	ND	100	ug	46
Benzonitrile	ND	10	ug	1.7
Benzo(ghi)perylene	ND	10	ug	0.62
Benzo(a)pyrene	ND	10	ug	0.50
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.50
bis(2-Chloroethyl)-ether	ND	10	ug	0.56
bis(2-Ethylhexyl) phthalate	ND	20	ug	10
4-Bromophenyl phenyl ether	ND	10	ug	0.50
Butyl benzyl phthalate	ND	10	ug	0.61
Carbazole	ND	10	ug	0.64
4-Chloroaniline	ND	20	ug	6.0
4-Chloro-3-methylphenol	ND	10	ug	0.62
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.50
4-Chlorophenyl phenyl ether	ND	10	ug	0.50
Chrysene	ND	10	ug	0.64
Dibenz(a,h)anthracene	ND	10	ug	0.60
Dibenzofuran	ND	10	ug	0.50
Di-n-butyl phthalate	ND	20	ug	10
1,2-Dichlorobenzene	ND	10	ug	0.51
1,3-Dichlorobenzene	ND	10	ug	0.57
1,4-Dichlorobenzene	ND	10	ug	0.53
3,3'-Dichlorobenzidine	ND	50	ug	7.4

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STL Knoxville - ACS

Client Sample ID: G-3029-R2-MM5 TRAIN A XAD-2 TRIP/RB

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-010 **Work Order #...:** H2H3W1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	0.50
Diethyl phthalate	ND	10	ug	0.73
2,4-Dimethylphenol	ND	10	ug	6.3
Dimethyl phthalate	ND	10	ug	0.50
1,3-Dinitrobenzene	ND	10	ug	0.52
4,6-Dinitro-2-methylphenol	ND	50	ug	8.7
2,4-Dinitrophenol	ND	50	ug	22
2,4-Dinitrotoluene	ND	10	ug	0.50
2,6-Dinitrotoluene	ND	10	ug	0.50
Di-n-octyl phthalate	ND	10	ug	0.56
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.50
Fluoranthene	ND	10	ug	0.54
Fluorene	ND	10	ug	0.50
Hexachlorobenzene	ND	10	ug	0.50
Hexachlorobutadiene	ND	10	ug	0.74
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	0.54
Indeno(1,2,3-cd)pyrene	ND	10	ug	0.54
Isophorone	ND	10	ug	0.50
2-Methylnaphthalene	ND	10	ug	0.50
2-Methylphenol	ND	10	ug	3.0
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.0
Naphthalene	ND	10	ug	0.60
2-Nitroaniline	ND	50	ug	0.50
3-Nitroaniline	ND	50	ug	2.0
4-Nitroaniline	ND	50	ug	2.0
Nitrobenzene	ND	10	ug	0.57
2-Nitrophenol	ND	10	ug	0.50
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.50
N-Nitrosodiphenylamine	ND	10	ug	0.87
N-Nitrosodi-n-propylamine	ND	10	ug	0.50
Pentachlorobenzene	ND	10	ug	0.50
Pentachloronitrobenzene	ND	50	ug	0.50
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.50
Phenol	ND	10	ug	0.90
2,2'-oxybis(1-Chloropropane)	ND	10	ug	0.76

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STL Knoxville - ACS

Client Sample ID: G-3029-R2-MM5 TRAIN A XAD-2 TRIP/RB

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-010 **Work Order #...:** H2H3W1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.53
Pyridine	ND	20	ug	0.74
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.50
1,2,4-Trichloro-benzene	ND	10	ug	0.59
2,4,5-Trichloro-phenol	ND	10	ug	1.3
2,4,6-Trichloro-phenol	ND	10	ug	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(19 - 100)
Phenol-d5	55	(15 - 124)
Nitrobenzene-d5	51	(35 - 122)
2-Fluorobiphenyl	66	(34 - 115)
2,4,6-Tribromophenol	59	(33 - 130)
Terphenyl-d14	75	(28 - 132)
13C6-Naphthalene	70	(50 - 150)

STL Knoxville - ACS

G-3029-R2-MM5 TRAIN A XAD-2 TRIP/RB

GC/MS Semivolatiles

Lot-Sample #: H6D030245-010 **Work Order #:** H2H3W1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Toluene	108-88-3	16 NJ	M	2.2258	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3103/3104-R3-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-011 **Work Order #...:** H2H3X1AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096185
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	ND	10	ug	0.77
Aniline	ND	20	ug	0.95
Anthracene	ND	10	ug	0.51
Benzaldehyde	ND	10	ug	2.6
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.82
Benzo(b)fluoranthene	ND	10	ug	1.4
Benzo(k)fluoranthene	ND	10	ug	2.1
Benzoic acid	ND	100	ug	42
Benzonitrile	ND	10	ug	2.4
Benzo(ghi)perylene	ND	10	ug	2.8
Benzo(a)pyrene	ND	10	ug	1.0
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.59
bis(2-Chloroethyl)-ether	ND	10	ug	0.76
bis(2-Ethylhexyl) phthalate	ND	10	ug	3.3
4-Bromophenyl phenyl ether	ND	10	ug	0.53
Butyl benzyl phthalate	ND	10	ug	1.1
Carbazole	ND	10	ug	0.76
4-Chloroaniline	ND	10	ug	1.2
4-Chloro-3-methylphenol	ND	10	ug	1.0
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.98
4-Chlorophenyl phenyl ether	ND	10	ug	0.51
Chrysene	ND	10	ug	0.88
Dibenz(a,h)anthracene	ND	10	ug	2.0
Dibenzofuran	ND	10	ug	0.53
Di-n-butyl phthalate	ND	10	ug	0.71
1,2-Dichlorobenzene	ND	10	ug	0.84
1,3-Dichlorobenzene	ND	10	ug	1.2
1,4-Dichlorobenzene	ND	10	ug	1.1
3,3'-Dichlorobenzidine	ND	50	ug	2.7

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STL Knoxville - ACS

Client Sample ID: G-3103/3104-R3-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-011 **Work Order #...:** H2H3X1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	1.5
Diethyl phthalate	ND	10	ug	1.5
2,4-Dimethylphenol	ND	10	ug	2.9
Dimethyl phthalate	ND	10	ug	0.63
1,3-Dinitrobenzene	ND	10	ug	0.59
4,6-Dinitro-2-methylphenol	ND	50	ug	5.0
2,4-Dinitrophenol	ND	50	ug	5.9
2,4-Dinitrotoluene	ND	10	ug	1.6
2,6-Dinitrotoluene	ND	10	ug	1.3
Di-n-octyl phthalate	ND	10	ug	2.1
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.63
Fluoranthene	ND	10	ug	0.50
Fluorene	ND	10	ug	0.51
Hexachlorobenzene	ND	10	ug	0.56
Hexachlorobutadiene	ND	10	ug	1.4
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	2.5
Indeno(1,2,3-cd)pyrene	ND	10	ug	2.1
Isophorone	ND	10	ug	0.66
2-Methylnaphthalene	ND	10	ug	0.56
2-Methylphenol	ND	10	ug	2.3
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.3
Naphthalene	ND	10	ug	0.50
2-Nitroaniline	ND	50	ug	0.56
3-Nitroaniline	ND	50	ug	3.8
4-Nitroaniline	ND	50	ug	2.3
Nitrobenzene	ND	10	ug	0.73
2-Nitrophenol	ND	10	ug	3.2
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.72
N-Nitrosodiphenylamine	ND	10	ug	0.60
N-Nitrosodi-n-propylamine	ND	10	ug	0.73
Pentachlorobenzene	ND	10	ug	0.52
Pentachloronitrobenzene	ND	10	ug	0.76
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.51
Phenol	ND	10	ug	1.1
2,2'-oxybis(1-Chloropropane)	ND	10	ug	1.0

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STL Knoxville - ACS

Client Sample ID: G-3103/3104-R3-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-011 **Work Order #...:** H2H3X1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.74
Pyridine	ND	20	ug	0.89
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.87
1,2,4-Trichloro-benzene	ND	10	ug	0.73
2,4,5-Trichloro-phenol	ND	10	ug	2.3
2,4,6-Trichloro-phenol	ND	10	ug	1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	44	(19 - 100)
Phenol-d5	47	(15 - 124)
Nitrobenzene-d5	44	(35 - 122)
2-Fluorobiphenyl	56	(34 - 115)
2,4,6-Tribromophenol	53	(33 - 130)
Terphenyl-d14	68	(28 - 132)

STL Knoxville - ACS

G-3103/3104-R3-MM5 FRONT HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-011 **Work Order #:** H2H3X1AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		23 NJ	M	2.7427	ug
9-Octadecenamide, (Z)-	301-02-0	14 NJ	M	11.562	ug
Unknown		5.7 NJ	M	12.701	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3105/3106-R3-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-012 **Work Order #...:** H2H301AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096187
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	**5.1 J**	**10**	**ug**	**2.4**
Aniline	ND	20	ug	7.3
Anthracene	ND	10	ug	0.50
Benzaldehyde	**6.9 J**	**10**	**ug**	**2.0**
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.58
Benzo(b)fluoranthene	ND	10	ug	1.1
Benzo(k)fluoranthene	ND	10	ug	1.6
Benzoic acid	ND	100	ug	46
Benzonitrile	ND	10	ug	1.7
Benzo(ghi)perylene	ND	10	ug	0.62
Benzo(a)pyrene	ND	10	ug	0.50
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.50
bis(2-Chloroethyl)-ether	ND	10	ug	0.56
bis(2-Ethylhexyl) phthalate	ND	20	ug	10
4-Bromophenyl phenyl ether	ND	10	ug	0.50
Butyl benzyl phthalate	ND	10	ug	0.61
Carbazole	ND	10	ug	0.64
4-Chloroaniline	ND	20	ug	6.0
4-Chloro-3-methylphenol	ND	10	ug	0.62
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.50
4-Chlorophenyl phenyl ether	ND	10	ug	0.50
Chrysene	ND	10	ug	0.64
Dibenz(a,h)anthracene	ND	10	ug	0.60
Dibenzofuran	ND	10	ug	0.50
Di-n-butyl phthalate	ND	20	ug	10
1,2-Dichlorobenzene	ND	10	ug	0.51
1,3-Dichlorobenzene	ND	10	ug	0.57
1,4-Dichlorobenzene	ND	10	ug	0.53
3,3'-Dichlorobenzidine	ND	50	ug	7.4

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STL Knoxville - ACS

Client Sample ID: G-3105/3106-R3-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-012 **Work Order #...:** H2H301AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	0.50
Diethyl phthalate	ND	10	ug	0.73
2,4-Dimethylphenol	ND	10	ug	6.3
Dimethyl phthalate	ND	10	ug	0.50
1,3-Dinitrobenzene	ND	10	ug	0.52
4,6-Dinitro-2-methylphenol	ND	50	ug	8.7
2,4-Dinitrophenol	ND	50	ug	22
2,4-Dinitrotoluene	ND	10	ug	0.50
2,6-Dinitrotoluene	ND	10	ug	0.50
Di-n-octyl phthalate	ND	10	ug	0.56
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.50
Fluoranthene	ND	10	ug	0.54
Fluorene	ND	10	ug	0.50
Hexachlorobenzene	ND	10	ug	0.50
Hexachlorobutadiene	ND	10	ug	0.74
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	0.54
Indeno(1,2,3-cd)pyrene	ND	10	ug	0.54
Isophorone	ND	10	ug	0.50
2-Methylnaphthalene	ND	10	ug	0.50
2-Methylphenol	ND	10	ug	3.0
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.0
Naphthalene	**9.9 J**	**10**	**ug**	**0.60**
2-Nitroaniline	ND	50	ug	0.50
3-Nitroaniline	ND	50	ug	2.0
4-Nitroaniline	ND	50	ug	2.0
Nitrobenzene	ND	10	ug	0.57
2-Nitrophenol	ND	10	ug	0.50
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.50
N-Nitrosodiphenylamine	ND	10	ug	0.87
N-Nitrosodi-n-propylamine	ND	10	ug	0.50
Pentachlorobenzene	ND	10	ug	0.50
Pentachloronitrobenzene	ND	50	ug	0.50
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.50
Phenol	ND	10	ug	0.90
2,2'-oxybis(1-Chloropropane)	ND	10	ug	0.76

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STL Knoxville - ACS

Client Sample ID: G-3105/3106-R3-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-012 **Work Order #...:** H2H301AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.53
Pyridine	ND	20	ug	0.74
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.50
1,2,4-Trichloro-benzene	ND	10	ug	0.59
2,4,5-Trichloro-phenol	ND	10	ug	1.3
2,4,6-Trichloro-phenol	ND	10	ug	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	50	(19 - 100)
Phenol-d5	54	(15 - 124)
Nitrobenzene-d5	45	(35 - 122)
2-Fluorobiphenyl	58	(34 - 115)
2,4,6-Tribromophenol	57	(33 - 130)
Terphenyl-d14	72	(28 - 132)
13C6-Naphthalene	60	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3105/3106-R3-MM5 BACK HALF COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-012 **Work Order #:** H2H301AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		70 NJ	M	2.1492	ug
Toluene	108-88-3	55 NJ	M	2.2315	ug
Methane, dibromochloro-	124-48-1	9.9 NJ	M	2.4312	ug
Tetrachloroethylene	127-18-4	21 NJ	M	2.5429	ug
Unknown		630 NJ	M	2.7779	ug
Benzene, chloro-	108-90-7	260 NJ	M	2.8249	ug
Methane, tribromo-	75-25-2	14 NJ	M	3.1363	ug
Benzaldehyde, 3-ethyl-	34246-54-3	7.2 NJ	M	5.5336	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3107/3108-R3-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-013 **Work Order #...:** H2H311AA **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096189
Dilution Factor: 2.34 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	23	ug	1.7
Acenaphthylene	ND	23	ug	1.5
Acetophenone	ND	23	ug	2.3
Aniline	ND	47	ug	16
Anthracene	ND	23	ug	1.5
Benzaldehyde	ND	23	ug	1.9
Benzidine	ND	230	ug	58
Benzo(a)anthracene	ND	23	ug	1.5
Benzo(b)fluoranthene	ND	23	ug	3.8
Benzo(k)fluoranthene	ND	23	ug	2.6
Benzoic acid	ND	120	ug	8.4
Benzonitrile	ND	23	ug	2.3
Benzo(ghi)perylene	ND	23	ug	1.9
Benzo(a)pyrene	ND	23	ug	1.6
Benzyl alcohol	ND	23	ug	1.8
bis(2-Chloroethoxy) methane	ND	23	ug	1.8
bis(2-Chloroethyl)-ether	ND	23	ug	1.5
bis(2-Ethylhexyl) phthalate	**16 J**	**23**	**ug**	**1.9**
4-Bromophenyl phenyl ether	ND	23	ug	1.3
Butyl benzyl phthalate	ND	23	ug	2.0
Carbazole	ND	23	ug	2.0
4-Chloroaniline	ND	23	ug	7.1
4-Chloro-3-methylphenol	ND	23	ug	5.8
2-Chloronaphthalene	ND	23	ug	1.2
2-Chlorophenol	ND	23	ug	1.5
4-Chlorophenyl phenyl ether	ND	23	ug	2.8
Chrysene	ND	23	ug	1.2
Dibenz(a,h)anthracene	ND	23	ug	2.5
Dibenzofuran	ND	23	ug	2.6
Di-n-butyl phthalate	ND	23	ug	2.0
1,2-Dichlorobenzene	ND	23	ug	1.5
1,3-Dichlorobenzene	ND	23	ug	1.3
1,4-Dichlorobenzene	ND	23	ug	1.8
3,3'-Dichlorobenzidine	ND	120	ug	6.9

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STL Knoxville - ACS

Client Sample ID: G-3107/3108-R3-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-013 Work Order #...: H2H311AA Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	23	ug	2.1
Diethyl phthalate	ND	23	ug	1.2
2,4-Dimethylphenol	ND	23	ug	1.4
Dimethyl phthalate	ND	23	ug	1.2
1,3-Dinitrobenzene	ND	23	ug	2.6
4,6-Dinitro-2-methylphenol	ND	120	ug	1.3
2,4-Dinitrophenol	ND	120	ug	3.6
2,4-Dinitrotoluene	ND	23	ug	2.4
2,6-Dinitrotoluene	ND	23	ug	1.8
Di-n-octyl phthalate	ND	23	ug	2.2
Diphenylamine	ND	23	ug	2.6
1,2-Diphenylhydrazine	ND	23	ug	1.3
Fluoranthene	ND	23	ug	1.6
Fluorene	ND	23	ug	2.5
Hexachlorobenzene	ND	23	ug	2.4
Hexachlorobutadiene	ND	23	ug	1.7
Hexachlorocyclopentadiene	ND	120	ug	5.8
Hexachloroethane	ND	23	ug	1.7
Indeno(1,2,3-cd)pyrene	ND	23	ug	2.0
Isophorone	ND	23	ug	1.6
2-Methylnaphthalene	ND	23	ug	2.0
2-Methylphenol	ND	23	ug	1.9
3-Methylphenol & 4-Methylphenol	ND	23	ug	2.0
Naphthalene	ND	23	ug	1.6
2-Nitroaniline	ND	120	ug	2.5
3-Nitroaniline	ND	120	ug	4.2
4-Nitroaniline	ND	120	ug	3.4
Nitrobenzene	ND	23	ug	1.5
2-Nitrophenol	ND	23	ug	2.4
4-Nitrophenol	ND	120	ug	3.4
N-Nitrosodimethylamine	ND	23	ug	1.9
N-Nitrosodiphenylamine	ND	23	ug	1.2
N-Nitrosodi-n-propylamine	ND	23	ug	2.1
Pentachlorobenzene	ND	23	ug	2.0
Pentachloronitrobenzene	ND	23	ug	2.3
Pentachlorophenol	ND	120	ug	3.1
Phenanthrene	ND	23	ug	1.7
Phenol	ND	23	ug	1.9
2,2'-oxybis(1-Chloropropane)	ND	23	ug	1.6

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STL Knoxville - ACS

Client Sample ID: G-3107/3108-R3-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-013 **Work Order #...:** H2H311AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	23	ug	1.3
Pyridine	ND	47	ug	4.7
1,2,4,5-Tetrachloro-benzene	ND	23	ug	1.9
1,2,4-Trichloro-benzene	ND	23	ug	1.9
2,4,5-Trichloro-phenol	ND	23	ug	1.9
2,4,6-Trichloro-phenol	ND	23	ug	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	91	(19 - 100)
Phenol-d5	88	(15 - 124)
Nitrobenzene-d5	108	(35 - 122)
2-Fluorobiphenyl	130 *	(34 - 115)
2,4,6-Tribromophenol	117	(33 - 130)
Terphenyl-d14	146 *	(28 - 132)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3107/3108-R3-MM5 IMPINGER COMPOSITE TRAIN A

GC/MS Semivolatiles

Lot-Sample #: H6D030245-013 **Work Order #:** H2H311AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
3-Penten-2-one, 4-methyl-	141-79-7	120 NJ	M	2.4255	ug
Unknown		37 NJ	M	2.5254	ug
Unknown		34 NJ	M	2.7428	ug

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: A-5375 MEDIA CHECK XAD

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-014 **Work Order #...:** H2H321AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096187
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	ND	10	ug	2.4
Aniline	ND	20	ug	7.3
Anthracene	ND	10	ug	0.50
Benzaldehyde	ND	10	ug	2.0
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.58
Benzo(b)fluoranthene	ND	10	ug	1.1
Benzo(k)fluoranthene	ND	10	ug	1.6
Benzoic acid	ND	100	ug	46
Benzonitrile	ND	10	ug	1.7
Benzo(ghi)perylene	ND	10	ug	0.62
Benzo(a)pyrene	ND	10	ug	0.50
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.50
bis(2-Chloroethyl)-ether	ND	10	ug	0.56
bis(2-Ethylhexyl) phthalate	ND	20	ug	10
4-Bromophenyl phenyl ether	ND	10	ug	0.50
Butyl benzyl phthalate	ND	10	ug	0.61
Carbazole	ND	10	ug	0.64
4-Chloroaniline	ND	20	ug	6.0
4-Chloro-3-methylphenol	ND	10	ug	0.62
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.50
4-Chlorophenyl phenyl ether	ND	10	ug	0.50
Chrysene	ND	10	ug	0.64
Dibenz(a,h)anthracene	ND	10	ug	0.60
Dibenzofuran	ND	10	ug	0.50
Di-n-butyl phthalate	ND	20	ug	10
1,2-Dichlorobenzene	ND	10	ug	0.51
1,3-Dichlorobenzene	ND	10	ug	0.57
1,4-Dichlorobenzene	ND	10	ug	0.53
3,3'-Dichlorobenzidine	ND	50	ug	7.4

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STL Knoxville - ACS

Client Sample ID: A-5375 MEDIA CHECK XAD

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-014 **Work Order #...:** H2H321AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	0.50
Diethyl phthalate	ND	10	ug	0.73
2,4-Dimethylphenol	ND	10	ug	6.3
Dimethyl phthalate	ND	10	ug	0.50
1,3-Dinitrobenzene	ND	10	ug	0.52
4,6-Dinitro-2-methylphenol	ND	50	ug	8.7
2,4-Dinitrophenol	ND	50	ug	22
2,4-Dinitrotoluene	ND	10	ug	0.50
2,6-Dinitrotoluene	ND	10	ug	0.50
Di-n-octyl phthalate	ND	10	ug	0.56
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.50
Fluoranthene	ND	10	ug	0.54
Fluorene	ND	10	ug	0.50
Hexachlorobenzene	ND	10	ug	0.50
Hexachlorobutadiene	ND	10	ug	0.74
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	0.54
Indeno(1,2,3-cd)pyrene	ND	10	ug	0.54
Isophorone	ND	10	ug	0.50
2-Methylnaphthalene	ND	10	ug	0.50
2-Methylphenol	ND	10	ug	3.0
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.0
Naphthalene	ND	10	ug	0.60
2-Nitroaniline	ND	50	ug	0.50
3-Nitroaniline	ND	50	ug	2.0
4-Nitroaniline	ND	50	ug	2.0
Nitrobenzene	ND	10	ug	0.57
2-Nitrophenol	ND	10	ug	0.50
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.50
N-Nitrosodiphenylamine	ND	10	ug	0.87
N-Nitrosodi-n-propylamine	ND	10	ug	0.50
Pentachlorobenzene	ND	10	ug	0.50
Pentachloronitrobenzene	ND	50	ug	0.50
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.50
Phenol	ND	10	ug	0.90
2,2'-oxybis(1-Chloropropane)	ND	10	ug	0.76

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STL Knoxville - ACS

Client Sample ID: A-5375 MEDIA CHECK XAD

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-014 **Work Order #...:** H2H321AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.53
Pyridine	ND	20	ug	0.74
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.50
1,2,4-Trichloro-benzene	ND	10	ug	0.59
2,4,5-Trichloro-phenol	ND	10	ug	1.3
2,4,6-Trichloro-phenol	ND	10	ug	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	65	(19 - 100)
Phenol-d5	69	(15 - 124)
Nitrobenzene-d5	67	(35 - 122)
2-Fluorobiphenyl	83	(34 - 115)
2,4,6-Tribromophenol	77	(33 - 130)
Terphenyl-d14	94	(28 - 132)

STL Knoxville - ACS

A-5375 MEDIA CHECK XAD

GC/MS Semivolatiles

Lot-Sample #: H6D030245-014 **Work Order #:** H2H321AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: A-5377 MEDIA CHECK FILTER

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-015 **Work Order #...:** H2H331AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/28/06
Prep Batch #...: 6096185
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug	0.50
Acenaphthylene	ND	10	ug	0.50
Acetophenone	ND	10	ug	0.77
Aniline	ND	20	ug	0.95
Anthracene	ND	10	ug	0.51
Benzaldehyde	ND	10	ug	2.6
Benzidine	ND	100	ug	51
Benzo(a)anthracene	ND	10	ug	0.82
Benzo(b)fluoranthene	ND	10	ug	1.4
Benzo(k)fluoranthene	ND	10	ug	2.1
Benzoic acid	ND	100	ug	42
Benzonitrile	ND	10	ug	2.4
Benzo(ghi)perylene	ND	10	ug	2.8
Benzo(a)pyrene	ND	10	ug	1.0
Benzyl alcohol	ND	100	ug	35
bis(2-Chloroethoxy) methane	ND	10	ug	0.59
bis(2-Chloroethyl)-ether	ND	10	ug	0.76
bis(2-Ethylhexyl) phthalate	ND	10	ug	3.3
4-Bromophenyl phenyl ether	ND	10	ug	0.53
Butyl benzyl phthalate	ND	10	ug	1.1
Carbazole	ND	10	ug	0.76
4-Chloroaniline	ND	10	ug	1.2
4-Chloro-3-methylphenol	ND	10	ug	1.0
2-Chloronaphthalene	ND	10	ug	0.50
2-Chlorophenol	ND	10	ug	0.98
4-Chlorophenyl phenyl ether	ND	10	ug	0.51
Chrysene	ND	10	ug	0.88
Dibenz(a,h)anthracene	ND	10	ug	2.0
Dibenzofuran	ND	10	ug	0.53
Di-n-butyl phthalate	ND	10	ug	0.71
1,2-Dichlorobenzene	ND	10	ug	0.84
1,3-Dichlorobenzene	ND	10	ug	1.2
1,4-Dichlorobenzene	ND	10	ug	1.1
3,3'-Dichlorobenzidine	ND	50	ug	2.7

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STL Knoxville - ACS

Client Sample ID: A-5377 MEDIA CHECK FILTER

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-015 **Work Order #...:** H2H331AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dichlorophenol	ND	10	ug	1.5
Diethyl phthalate	ND	10	ug	1.5
2,4-Dimethylphenol	ND	10	ug	2.9
Dimethyl phthalate	ND	10	ug	0.63
1,3-Dinitrobenzene	ND	10	ug	0.59
4,6-Dinitro-2-methylphenol	ND	50	ug	5.0
2,4-Dinitrophenol	ND	50	ug	5.9
2,4-Dinitrotoluene	ND	10	ug	1.6
2,6-Dinitrotoluene	ND	10	ug	1.3
Di-n-octyl phthalate	ND	10	ug	2.1
Diphenylamine	ND	10	ug	0.50
1,2-Diphenylhydrazine	ND	10	ug	0.63
Fluoranthene	ND	10	ug	0.50
Fluorene	ND	10	ug	0.51
Hexachlorobenzene	ND	10	ug	0.56
Hexachlorobutadiene	ND	10	ug	1.4
Hexachlorocyclopentadiene	ND	50	ug	10
Hexachloroethane	ND	10	ug	2.5
Indeno(1,2,3-cd)pyrene	ND	10	ug	2.1
Isophorone	ND	10	ug	0.66
2-Methylnaphthalene	ND	10	ug	0.56
2-Methylphenol	ND	10	ug	2.3
3-Methylphenol & 4-Methylphenol	ND	10	ug	2.3
Naphthalene	ND	10	ug	0.50
2-Nitroaniline	ND	50	ug	0.56
3-Nitroaniline	ND	50	ug	3.8
4-Nitroaniline	ND	50	ug	2.3
Nitrobenzene	ND	10	ug	0.73
2-Nitrophenol	ND	10	ug	3.2
4-Nitrophenol	ND	50	ug	3.3
N-Nitrosodimethylamine	ND	10	ug	0.72
N-Nitrosodiphenylamine	ND	10	ug	0.60
N-Nitrosodi-n-propylamine	ND	10	ug	0.73
Pentachlorobenzene	ND	10	ug	0.52
Pentachloronitrobenzene	ND	10	ug	0.76
Pentachlorophenol	ND	50	ug	25
Phenanthrene	ND	10	ug	0.51
Phenol	ND	10	ug	1.1
2,2'-oxybis(1-Chloropropane)	ND	10	ug	1.0

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STL Knoxville - ACS

Client Sample ID: A-5377 MEDIA CHECK FILTER

GC/MS Semivolatiles

Lot-Sample #...: H6D030245-015 **Work Order #...:** H2H331AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Pyrene	ND	10	ug	0.74
Pyridine	ND	20	ug	0.89
1,2,4,5-Tetrachloro-benzene	ND	10	ug	0.87
1,2,4-Trichloro-benzene	ND	10	ug	0.73
2,4,5-Trichloro-phenol	ND	10	ug	2.3
2,4,6-Trichloro-phenol	ND	10	ug	1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	15 *	(19 - 100)
Phenol-d5	13 *	(15 - 124)
Nitrobenzene-d5	13 *	(35 - 122)
2-Fluorobiphenyl	23 *	(34 - 115)
2,4,6-Tribromophenol	26 *	(33 - 130)
Terphenyl-d14	35	(28 - 132)

NOTE(S):

* Surrogate recovery is outside stated control limits.

STL Knoxville - ACS

A-5377 MEDIA CHECK FILTER

GC/MS Semivolatiles

Lot-Sample #: H6D030245-015 **Work Order #:** H2H331AA **Matrix:** AIR

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2919/2920-R1-MM5 FRONT HALF COMPOSITE TRAIN A

GC Semivolatiles

Lot-Sample #...: H6D030245-001 **Work Order #...:** H2H3J1AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/19/06
Prep Batch #...: 6096186
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.20	ug	0.036
alpha-BHC	ND	0.10	ug	0.026
beta-BHC	ND	0.10	ug	0.033
delta-BHC	ND	0.050	ug	0.015
gamma-BHC (Lindane)	ND	0.050	ug	0.014
alpha-Chlordane	ND	0.050	ug	0.013
gamma-Chlordane	ND	0.30	ug	0.078
Chlorobenzilate	ND	0.40	ug	0.083
4,4'-DDD	ND	0.30	ug	0.083
4,4'-DDE	ND	0.20	ug	0.039
4,4'-DDT	ND	0.10	ug	0.023
Diallate	ND	30	ug	11
Dieldrin	ND	0.050	ug	0.013
Endosulfan I	ND	0.050	ug	0.013
Endosulfan II	ND	0.050	ug	0.014
Endosulfan sulfate	ND	0.10	ug	0.023
Endrin	ND	0.40	ug	0.050
Endrin aldehyde	ND	0.10	ug	0.018
Endrin ketone	ND	0.050	ug	0.017
Heptachlor	ND	0.050	ug	0.016
Heptachlor epoxide	ND	0.050	ug	0.015
Methoxychlor	ND	0.10	ug	0.038

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(34 - 144)
Decachlorobiphenyl	91	(30 - 126)

STL Knoxville - ACS

Client Sample ID: G-2921/2922-R1-MM5 BACK HALF COMPOSITE TRAIN A

GC Semivolatiles

Lot-Sample #...: H6D030245-002 **Work Order #...:** H2H3L1AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/21/06
Prep Batch #...: 6096188
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug	0.014
alpha-BHC	ND	0.10	ug	0.022
beta-BHC	ND	0.20	ug	0.063
delta-BHC	**0.022 J,COL**	**0.10**	**ug**	**0.019**
gamma-BHC (Lindane)	ND	0.050	ug	0.014
alpha-Chlordane	**0.021 J,COL**	**0.050**	**ug**	**0.016**
gamma-Chlordane	ND	0.30	ug	0.043
Chlorobenzilate	ND	0.40	ug	0.093
4,4'-DDD	ND	0.30	ug	0.093
4,4'-DDE	**0.052 J**	**0.20**	**ug**	**0.047**
4,4'-DDT	**0.063 J,COL**	**0.10**	**ug**	**0.021**
Diallate	ND	30	ug	9.7
Dieldrin	ND	0.050	ug	0.015
Endosulfan I	ND	0.10	ug	0.018
Endosulfan II	**0.060 J,COL**	**0.10**	**ug**	**0.023**
Endosulfan sulfate	ND	0.050	ug	0.013
Endrin	ND	0.40	ug	0.063
Endrin aldehyde	ND	0.10	ug	0.040
Endrin ketone	ND	0.050	ug	0.017
Heptachlor	ND	0.050	ug	0.013
Heptachlor epoxide	**0.042 J,COL**	**0.050**	**ug**	**0.015**
Methoxychlor	ND	0.40	ug	0.11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(34 - 144)
Decachlorobiphenyl	108	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

STL Knoxville - ACS

Client Sample ID: G-2923/2924-R1-MM5 IMPINGER COMPOSITE TRAIN A

GC Semivolatiles

Lot-Sample #...: H6D030245-003 **Work Order #...:** H2H3M1AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/19/06
Prep Batch #...: 6095224
Dilution Factor: 2.3 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.12	ug	0.034
alpha-BHC	ND	0.12	ug	0.016
beta-BHC	ND	0.23	ug	0.034
delta-BHC	ND	0.12	ug	0.025
gamma-BHC (Lindane)	ND	0.12	ug	0.012
alpha-Chlordane	ND	0.12	ug	0.014
gamma-Chlordane	ND	0.12	ug	0.018
Chlorobenzilate	**0.15 J,COL**	**0.46**	**ug**	**0.14**
4,4'-DDD	ND	0.46	ug	0.14
4,4'-DDE	ND	0.12	ug	0.028
4,4'-DDT	**0.026 J**	**0.12**	**ug**	**0.023**
Diallate	ND	2.3	ug	0.78
Dieldrin	ND	0.12	ug	0.012
Endosulfan I	ND	0.12	ug	0.014
Endosulfan II	ND	0.12	ug	0.018
Endosulfan sulfate	ND	0.12	ug	0.016
Endrin	ND	0.23	ug	0.051
Endrin aldehyde	**0.020 J,B,COL**	**0.12**	**ug**	**0.016**
Endrin ketone	ND	0.12	ug	0.025
Heptachlor	**0.020 J,COL**	**0.12**	**ug**	**0.012**
Heptachlor epoxide	ND	0.12	ug	0.012
Methoxychlor	ND	0.12	ug	0.037

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(34 - 144)
Decachlorobiphenyl	92	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3017/3018-R2-MM5 FRONT HALF COMPOSITE TRAIN A

GC Semivolatiles

Lot-Sample #...: H6D030245-004 **Work Order #...:** H2H3N1AC **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/19/06
Prep Batch #...: 6096186
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.20	ug	0.036
alpha-BHC	ND	0.10	ug	0.026
beta-BHC	ND	0.10	ug	0.033
delta-BHC	ND	0.050	ug	0.015
gamma-BHC (Lindane)	ND	0.050	ug	0.014
alpha-Chlordane	ND	0.050	ug	0.013
gamma-Chlordane	ND	0.30	ug	0.078
Chlorobenzilate	ND	0.40	ug	0.083
4,4'-DDD	ND	0.30	ug	0.083
4,4'-DDE	ND	0.20	ug	0.039
4,4'-DDT	ND	0.10	ug	0.023
Diallate	ND	30	ug	11
Dieldrin	ND	0.050	ug	0.013
Endosulfan I	ND	0.050	ug	0.013
Endosulfan II	ND	0.050	ug	0.014
Endosulfan sulfate	ND	0.10	ug	0.023
Endrin	ND	0.40	ug	0.050
Endrin aldehyde	ND	0.10	ug	0.018
Endrin ketone	ND	0.050	ug	0.017
Heptachlor	ND	0.050	ug	0.016
Heptachlor epoxide	ND	0.050	ug	0.015
Methoxychlor	ND	0.10	ug	0.038

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(34 - 144)
Decachlorobiphenyl	92	(30 - 126)

STL Knoxville - ACS

Client Sample ID: G-3019/3020-R2-MM5 BACK HALF COMPOSITE TRAIN A

GC Semivolatiles

Lot-Sample #...: H6D030245-005 **Work Order #...:** H2H3P1AC **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/21/06
Prep Batch #...: 6096188
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug	0.014
alpha-BHC	ND	0.10	ug	0.022
beta-BHC	ND	0.20	ug	0.063
delta-BHC	ND	0.10	ug	0.019
gamma-BHC (Lindane)	ND	0.050	ug	0.014
alpha-Chlordane	**0.028 J,COL**	**0.050**	**ug**	**0.016**
gamma-Chlordane	ND	0.30	ug	0.043
Chlorobenzilate	ND	0.40	ug	0.093
4,4'-DDD	ND	0.30	ug	0.093
4,4'-DDE	ND	0.20	ug	0.047
4,4'-DDT	ND	0.10	ug	0.021
Diallate	ND	30	ug	9.7
Dieldrin	ND	0.050	ug	0.015
Endosulfan I	ND	0.10	ug	0.018
Endosulfan II	ND	0.10	ug	0.023
Endosulfan sulfate	ND	0.050	ug	0.013
Endrin	ND	0.40	ug	0.063
Endrin aldehyde	ND	0.10	ug	0.040
Endrin ketone	ND	0.050	ug	0.017
Heptachlor	ND	0.050	ug	0.013
Heptachlor epoxide	ND	0.050	ug	0.015
Methoxychlor	ND	0.40	ug	0.11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(34 - 144)
Decachlorobiphenyl	110	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

STL Knoxville - ACS

Client Sample ID: G-3021/3022-R2-MM5 IMPINGER COMPOSITE TRAIN A

GC Semivolatiles

Lot-Sample #...: H6D030245-006 **Work Order #...:** H2H3Q1AC **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/19/06
Prep Batch #...: 6095224
Dilution Factor: 2.2 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.11	ug	0.033
alpha-BHC	**0.023 J**	**0.11**	**ug**	**0.015**
beta-BHC	**0.052 J,COL**	**0.22**	**ug**	**0.033**
delta-BHC	**0.11 COL**	**0.11**	**ug**	**0.024**
gamma-BHC (Lindane)	ND	0.11	ug	0.011
alpha-Chlordane	ND	0.11	ug	0.013
gamma-Chlordane	ND	0.11	ug	0.018
Chlorobenzilate	ND	0.44	ug	0.13
4,4'-DDD	ND	0.44	ug	0.13
4,4'-DDE	ND	0.11	ug	0.026
4,4'-DDT	ND	0.11	ug	0.022
Diallate	ND	2.2	ug	0.75
Dieldrin	ND	0.11	ug	0.011
Endosulfan I	ND	0.11	ug	0.013
Endosulfan II	ND	0.11	ug	0.018
Endosulfan sulfate	ND	0.11	ug	0.015
Endrin	ND	0.22	ug	0.048
Endrin aldehyde	**0.18 B,COL**	**0.11**	**ug**	**0.015**
Endrin ketone	ND	0.11	ug	0.024
Heptachlor	**0.11 COL**	**0.11**	**ug**	**0.011**
Heptachlor epoxide	**0.025 J,COL**	**0.11**	**ug**	**0.011**
Methoxychlor	ND	0.11	ug	0.035

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(34 - 144)
Decachlorobiphenyl	73	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3023/3024-R2-MM5 FRONT HALF COMPOSITE BT A

GC Semivolatiles

Lot-Sample #...: H6D030245-007 **Work Order #...:** H2H3R1AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/19/06
Prep Batch #...: 6096186
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.20	ug	0.036
alpha-BHC	ND	0.10	ug	0.026
beta-BHC	ND	0.10	ug	0.033
delta-BHC	ND	0.050	ug	0.015
gamma-BHC (Lindane)	ND	0.050	ug	0.014
alpha-Chlordane	ND	0.050	ug	0.013
gamma-Chlordane	ND	0.30	ug	0.078
Chlorobenzilate	ND	0.40	ug	0.083
4,4'-DDD	ND	0.30	ug	0.083
4,4'-DDE	ND	0.20	ug	0.039
4,4'-DDT	ND	0.10	ug	0.023
Diallate	ND	30	ug	11
Dieldrin	ND	0.050	ug	0.013
Endosulfan I	ND	0.050	ug	0.013
Endosulfan II	ND	0.050	ug	0.014
Endosulfan sulfate	ND	0.10	ug	0.023
Endrin	ND	0.40	ug	0.050
Endrin aldehyde	**0.019 J,COL**	**0.10**	**ug**	**0.018**
Endrin ketone	ND	0.050	ug	0.017
Heptachlor	**0.034 J,B,COL**	**0.050**	**ug**	**0.016**
Heptachlor epoxide	ND	0.050	ug	0.015
Methoxychlor	ND	0.10	ug	0.038

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(34 - 144)
Decachlorobiphenyl	86	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3025/3026-R2-MM5 BACK HALF COMPOSITE BT A

GC Semivolatiles

Lot-Sample #...: H6D030245-008 **Work Order #...:** H2H3T1AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/21/06
Prep Batch #...: 6096188
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug	0.014
alpha-BHC	ND	0.10	ug	0.022
beta-BHC	ND	0.20	ug	0.063
delta-BHC	ND	0.10	ug	0.019
gamma-BHC (Lindane)	ND	0.050	ug	0.014
alpha-Chlordane	ND	0.050	ug	0.016
gamma-Chlordane	**0.048 J,COL**	**0.30**	**ug**	**0.043**
Chlorobenzilate	ND	0.40	ug	0.093
4,4'-DDD	ND	0.30	ug	0.093
4,4'-DDE	ND	0.20	ug	0.047
4,4'-DDT	ND	0.10	ug	0.021
Diallate	ND	30	ug	9.7
Dieldrin	ND	0.050	ug	0.015
Endosulfan I	ND	0.10	ug	0.018
Endosulfan II	ND	0.10	ug	0.023
Endosulfan sulfate	ND	0.050	ug	0.013
Endrin	ND	0.40	ug	0.063
Endrin aldehyde	ND	0.10	ug	0.040
Endrin ketone	ND	0.050	ug	0.017
Heptachlor	ND	0.050	ug	0.013
Heptachlor epoxide	ND	0.050	ug	0.015
Methoxychlor	ND	0.40	ug	0.11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(34 - 144)
Decachlorobiphenyl	96	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

STL Knoxville - ACS

Client Sample ID: G-3027/3028-R2-MM5 IMPINGER COMPOSITE BT A

GC Semivolatiles

Lot-Sample #...: H6D030245-009 **Work Order #...:** H2H3V1AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/19/06
Prep Batch #...: 6095224
Dilution Factor: 2 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.10	ug	0.030
alpha-BHC	ND	0.10	ug	0.014
beta-BHC	**0.070 J,COL**	**0.20**	**ug**	**0.030**
delta-BHC	**0.064 J,COL**	**0.10**	**ug**	**0.022**
gamma-BHC (Lindane)	ND	0.10	ug	0.010
alpha-Chlordane	ND	0.10	ug	0.012
gamma-Chlordane	ND	0.10	ug	0.016
Chlorobenzilate	ND	0.40	ug	0.12
4,4'-DDD	ND	0.40	ug	0.12
4,4'-DDE	ND	0.10	ug	0.024
4,4'-DDT	ND	0.10	ug	0.020
Diallate	ND	2.0	ug	0.68
Dieldrin	ND	0.10	ug	0.010
Endosulfan I	ND	0.10	ug	0.012
Endosulfan II	**0.020 J**	**0.10**	**ug**	**0.016**
Endosulfan sulfate	ND	0.10	ug	0.014
Endrin	ND	0.20	ug	0.044
Endrin aldehyde	**0.11 B,COL**	**0.10**	**ug**	**0.014**
Endrin ketone	ND	0.10	ug	0.022
Heptachlor	**0.045 J,COL**	**0.10**	**ug**	**0.010**
Heptachlor epoxide	**0.020 J,COL**	**0.10**	**ug**	**0.010**
Methoxychlor	ND	0.10	ug	0.032

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(34 - 144)
Decachlorobiphenyl	45	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3029-R2-MM5 TRAIN A XAD-2 TRIP/RB

GC Semivolatiles

Lot-Sample #...: H6D030245-010 **Work Order #...:** H2H3W1AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/21/06
Prep Batch #...: 6096188
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug	0.014
alpha-BHC	ND	0.10	ug	0.022
beta-BHC	ND	0.20	ug	0.063
delta-BHC	ND	0.10	ug	0.019
gamma-BHC (Lindane)	ND	0.050	ug	0.014
alpha-Chlordane	ND	0.050	ug	0.016
gamma-Chlordane	ND	0.30	ug	0.043
Chlorobenzilate	ND	0.40	ug	0.093
4,4'-DDD	ND	0.30	ug	0.093
4,4'-DDE	ND	0.20	ug	0.047
4,4'-DDT	**0.037 J,COL**	**0.10**	**ug**	**0.021**
Diallate	ND	30	ug	9.7
Dieldrin	ND	0.050	ug	0.015
Endosulfan I	ND	0.10	ug	0.018
Endosulfan II	ND	0.10	ug	0.023
Endosulfan sulfate	ND	0.050	ug	0.013
Endrin	ND	0.40	ug	0.063
Endrin aldehyde	ND	0.10	ug	0.040
Endrin ketone	ND	0.050	ug	0.017
Heptachlor	**0.014 J,COL**	**0.050**	**ug**	**0.013**
Heptachlor epoxide	ND	0.050	ug	0.015
Methoxychlor	ND	0.40	ug	0.11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(34 - 144)
Decachlorobiphenyl	100	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

STL Knoxville - ACS

Client Sample ID: G-3103/3104-R3-MM5 FRONT HALF COMPOSITE TRAIN A

GC Semivolatiles

Lot-Sample #...: H6D030245-011 **Work Order #...:** H2H3X1AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/19/06
Prep Batch #...: 6096186
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.20	ug	0.036
alpha-BHC	ND	0.10	ug	0.026
beta-BHC	ND	0.10	ug	0.033
delta-BHC	ND	0.050	ug	0.015
gamma-BHC (Lindane)	ND	0.050	ug	0.014
alpha-Chlordane	ND	0.050	ug	0.013
gamma-Chlordane	ND	0.30	ug	0.078
Chlorobenzilate	ND	0.40	ug	0.083
4,4'-DDD	ND	0.30	ug	0.083
4,4'-DDE	ND	0.20	ug	0.039
4,4'-DDT	ND	0.10	ug	0.023
Diallate	ND	30	ug	11
Dieldrin	ND	0.050	ug	0.013
Endosulfan I	ND	0.050	ug	0.013
Endosulfan II	ND	0.050	ug	0.014
Endosulfan sulfate	ND	0.10	ug	0.023
Endrin	ND	0.40	ug	0.050
Endrin aldehyde	ND	0.10	ug	0.018
Endrin ketone	ND	0.050	ug	0.017
Heptachlor	ND	0.050	ug	0.016
Heptachlor epoxide	ND	0.050	ug	0.015
Methoxychlor	ND	0.10	ug	0.038

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(34 - 144)
Decachlorobiphenyl	94	(30 - 126)

STL Knoxville - ACS

Client Sample ID: G-3105/3106-R3-MM5 BACK HALF COMPOSITE TRAIN A

GC Semivolatiles

Lot-Sample #...: H6D030245-012 **Work Order #...:** H2H301AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/21/06
Prep Batch #...: 6096188
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug	0.014
alpha-BHC	ND	0.10	ug	0.022
beta-BHC	**0.074 J,COL**	**0.20**	**ug**	**0.063**
delta-BHC	ND	0.10	ug	0.019
gamma-BHC (Lindane)	ND	0.050	ug	0.014
alpha-Chlordane	ND	0.050	ug	0.016
gamma-Chlordane	ND	0.30	ug	0.043
Chlorobenzilate	**0.097 J,COL**	**0.40**	**ug**	**0.093**
4,4'-DDD	**0.26 J**	**0.30**	**ug**	**0.093**
4,4'-DDE	ND	0.20	ug	0.047
4,4'-DDT	ND	0.10	ug	0.021
Diallate	ND	30	ug	9.7
Dieldrin	ND	0.050	ug	0.015
Endosulfan I	ND	0.10	ug	0.018
Endosulfan II	ND	0.10	ug	0.023
Endosulfan sulfate	ND	0.050	ug	0.013
Endrin	ND	0.40	ug	0.063
Endrin aldehyde	ND	0.10	ug	0.040
Endrin ketone	ND	0.050	ug	0.017
Heptachlor	ND	0.050	ug	0.013
Heptachlor epoxide	ND	0.050	ug	0.015
Methoxychlor	ND	0.40	ug	0.11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(34 - 144)
Decachlorobiphenyl	105	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

STL Knoxville - ACS

Client Sample ID: G-3107/3108-R3-MM5 IMPINGER COMPOSITE TRAIN A

GC Semivolatiles

Lot-Sample #...: H6D030245-013 **Work Order #...:** H2H311AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/19/06
Prep Batch #...: 6095224
Dilution Factor: 2.3 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.12	ug	0.034
alpha-BHC	ND	0.12	ug	0.016
beta-BHC	**0.035 J,COL**	**0.23**	**ug**	**0.034**
delta-BHC	**0.078 J,COL**	**0.12**	**ug**	**0.025**
gamma-BHC (Lindane)	ND	0.12	ug	0.012
alpha-Chlordane	ND	0.12	ug	0.014
gamma-Chlordane	ND	0.12	ug	0.018
Chlorobenzilate	ND	0.46	ug	0.14
4,4'-DDD	ND	0.46	ug	0.14
4,4'-DDE	ND	0.12	ug	0.028
4,4'-DDT	ND	0.12	ug	0.023
Diallate	ND	2.3	ug	0.78
Dieldrin	ND	0.12	ug	0.012
Endosulfan I	ND	0.12	ug	0.014
Endosulfan II	ND	0.12	ug	0.018
Endosulfan sulfate	ND	0.12	ug	0.016
Endrin	ND	0.23	ug	0.051
Endrin aldehyde	**0.022 J,B,COL**	**0.12**	**ug**	**0.016**
Endrin ketone	ND	0.12	ug	0.025
Heptachlor	**0.056 J,COL**	**0.12**	**ug**	**0.012**
Heptachlor epoxide	**0.013 J,COL**	**0.12**	**ug**	**0.012**
Methoxychlor	ND	0.12	ug	0.037

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(34 - 144)
Decachlorobiphenyl	78	(30 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: A-5375 MEDIA CHECK XAD

GC Semivolatiles

Lot-Sample #...: H6D030245-014 **Work Order #...:** H2H321AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/21/06
Prep Batch #...: 6096188
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
alpha-BHC	ND	0.10	ug	0.022
beta-BHC	ND	0.20	ug	0.063
alpha-Chlordane	ND	0.050	ug	0.016
gamma-Chlordane	ND	0.30	ug	0.043
Chlorobenzilate	ND	0.40	ug	0.093
Diallate	ND	30	ug	9.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79	(34 - 144)
Decachlorobiphenyl	101	(30 - 126)

STL Knoxville - ACS

Client Sample ID: A-5377 MEDIA CHECK FILTER

GC Semivolatiles

Lot-Sample #...: H6D030245-015 **Work Order #...:** H2H331AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/19/06
Prep Batch #...: 6096186
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
alpha-BHC	ND	0.10	ug	0.026
beta-BHC	ND	0.10	ug	0.033
alpha-Chlordane	ND	0.050	ug	0.013
gamma-Chlordane	ND	0.30	ug	0.078
Chlorobenzilate	ND	0.40	ug	0.083
Diallate	ND	30	ug	11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	37	(34 - 144)
Decachlorobiphenyl	44	(30 - 126)

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 26A

Lot #: H6D040103

William Anderson

STL Knoxville
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Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 28, 2006

ANALYTICAL METHODS SUMMARY

H6D040103

PARAMETER	ANALYTICAL METHOD
Chlorine Emissions	KNOX 0050/26A Mod
Hydrogen Chloride Emissions	KNOX 0050/26A Mod

References:

KNOX Severn Trent Laboratories Knoxville, Facility Standard Operating Procedure.

SAMPLE SUMMARY

H6D040103

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H69	001	G-2978-R1-M5 0.1N H2SO4 IMPINGER SOLUTION	03/28/06	
H2H7E	002	G-2979-R1-M5 0.1N NAOH IMPINGER SOLUTION	03/28/06	
H2H7F	003	G-2982-R1-M5 0.1N H2SO4 IMPINGER SOLUTION RB	03/28/06	
H2H7G	004	G-2983-R1-M5 0.1N NAOH IMPINGER SOLUTION RB	03/28/06	
H2H7J	005	G-3065-R2-M5 0.1N H2SO4 IMPINGER SOLUTION	03/29/06	
H2H7K	006	G-3066-R2-M5 0.1N NAOH IMPINGER SOLUTION	03/29/06	
H2H7P	007	G-3149-R3-M5 0.1N H2SO4 IMPINGER SOLUTION	03/30/06	
H2H7V	008	G-3150-R3-M5 0.1N NAOH IMPINGER SOLUTION	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D040103

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Samples were analyzed for chloride by ion chromatography using SOP number KNOX-WC-005 (based on EPA methods 9056, 9057 and 26A). All sample results were reported as total µg hydrogen chloride (HCl) and total µg chlorine (Cl_2). Results were calculated using the following equations:

$$\text{HCl, ug} = (\text{Chloride, ug/mL}) * (\text{Sample Volume, mL}) * \left(\frac{\text{Molecular Weight HCl}}{\text{Molecular Weight Cl}}\right) * \text{Bench Dilution}$$

$$\text{Cl}_2\text{, ug} = (\text{Chloride, ug/mL}) * (\text{Sample Volume, mL}) * \text{Bench Dilution}$$

NaOH impinger samples were treated with sodium thiosulfate ($Na_2S_2O_3$) prior to the final analysis in order to convert residual hypochlorite (OCl^-) to chloride ion.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H6D040103

Note: A sample volume of 100 mL was used to convert the results to total µg for the method blanks, laboratory control samples, and client reagent blanks in order to standardize the analyte sample total.

For demonstration of analytical method performance on these samples, STL Knoxville analyzed matrix spikes (MS) and matrix spike duplicates (MSD). Acceptable recoveries of these spikes demonstrate that quantitation from this particular stack gas matrix is accurate and acceptable. Impinger samples containing 0.1N H_2SO4 and 0.1N NaOH display matrix interference effects causing poor method performance and possibly giving unreliable data unless the interference is removed. Therefore, the samples were diluted in the lab to remove the interference for a more accurate chloride response. The samples may be analyzed at increasing dilutions along with matrix spikes until matrix spikes recover from the sample within laboratory control limits. The ion chromatograph calibration range used to quantitate the sample results permits a standard ten-fold sample dilution while supporting the reporting limit with the low calibration standard.

The dilution factor reported on the sample result form does not represent the bench dilution factor. It is actually the combination of factors required by the method to convert the anion reporting limit and method detection limit from µg/mL to total µg. It may appear to be elevated because it includes the total sample volume in mL.

Samples G-2979-R1-M5 0.1N NAOH Impinger Solution and G-3150-R3-M5 0.1 N NAOH Impinger Solution were analyzed at several dilutions along with matrix spikes. The matrix spike recoveries for Cl_2 improved with each successive dilution, but the matrix spike recoveries for the twenty-fold dilution were still outside laboratory control limits. Analyzing the samples at a fifty-fold dilution resulted in the samples being over-diluted; therefore, the results from the twenty-fold dilution were reported. The laboratory control samples showed acceptable results indicating that the analysis was in control.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2978-R1-M5 0.1N H2SO4 IMPINGER SOLUTION

General Chemistry

Lot-Sample #...: H6D040103-001 Work Order #...: H2H69 Matrix.....: AIR
Date Sampled...: 03/28/06 Date Received..: 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hydrogen chloride	11800	1860	ug	KNOX 0050/26A Mod	04/21/06	6114264

Dilution Factor: 1856.3 MDL.....: 557

STL Knoxville - ACS

Client Sample ID: G-2979-R1-M5 0.1N NAOH IMPINGER SOLUTION

General Chemistry

Lot-Sample #...: H6D040103-002 Work Order #...: H2H7E Matrix.....: AIR
Date Sampled...: 03/28/06 Date Received..: 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chlorine	1950	610	ug	KNOX 0050/26A Mod	04/17/06	6116184
		Dilution Factor: 610		MDL.....: 183		

STL Knoxville - ACS

Client Sample ID: G-2982-R1-M5 0.1N H2SO4 IMPINGER SOLUTION RB

General Chemistry

Lot-Sample #...: H6D040103-003 **Work Order #...:** H2H7F **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hydrogen chloride	ND	514	ug	KNOX 0050/26A Mod	04/25/06	6115303

Dilution Factor: 514.2 MDL.....: 154

STL Knoxville - ACS

Client Sample ID: G-2983-R1-M5 0.1N NAOH IMPINGER SOLUTION RB

General Chemistry

Lot-Sample #...: H6D040103-004 **Work Order #...:** H2H7G **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chlorine	ND	100	ug	KNOX 0050/26A Mod	04/17/06	6116184

Dilution Factor: 100 MDL.....: 30.0

STL Knoxville - ACS

Client Sample ID: G-3065-R2-M5 0.1N H2SO4 IMPINGER SOLUTION

General Chemistry

Lot-Sample #...: H6D040103-005 Work Order #...: H2H7J Matrix.....: AIR
Date Sampled...: 03/29/06 Date Received..: 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hydrogen chloride	6950	1940	ug	KNOX 0050/26A Mod	04/21/06	6114264

Dilution Factor: 1938.6 MDL.....: 582

STL Knoxville - ACS

Client Sample ID: G-3066-R2-M5 0.1N NAOH IMPINGER SOLUTION

General Chemistry

Lot-Sample #...: H6D040103-006 Work Order #...: H2H7K Matrix.....: AIR
Date Sampled...: 03/29/06 Date Received..: 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chlorine	2010	720	ug	KNOX 0050/26A Mod	04/17/06	6116184

Dilution Factor: 720 MDL.....: 216

STL Knoxville - ACS

Client Sample ID: G-3149-R3-M5 0.1N H2SO4 IMPINGER SOLUTION

General Chemistry

Lot-Sample #...: H6D040103-007 Work Order #...: H2H7P Matrix.....: AIR
Date Sampled...: 03/30/06 Date Received..: 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hydrogen chloride	6490	1940	ug	KNOX 0050/26A Mod	04/21/06	6114264

Dilution Factor: 1938.6 MDL.....: 582

STL Knoxville - ACS

Client Sample ID: G-3150-R3-M5 0.1N NAOH IMPINGER SOLUTION

General Chemistry

Lot-Sample #...: H6D040103-008 Work Order #...: H2H7V Matrix.....: AIR
Date Sampled...: 03/30/06 Date Received..: 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chlorine	1940	610	ug	KNOX 0050/26A Mod	04/25/06	6116088

Dilution Factor: 610 MDL.....: 183

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates PE

Lot #: H6D120117

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.

Kevin S. Woodcock
Project Manager

April 21, 2006

ANALYTICAL METHODS SUMMARY

H6D120117

PARAMETER	ANALYTICAL METHOD
Volatile Organic Sampling Train (VOST)	SW846 VOST

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D120117

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H23FT	001	REGION 9 AUDIT SAMPLE #1	04/11/06	13:00
H23FX	002	REGION 9 AUDIT SAMPLE #2	04/11/06	13:05
H23F0	003	REGION 9 AUDIT SAMPLE #3	04/11/06	13:10

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D120117

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met, and the test results shown in this report meet all applicable NELAC requirements.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

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Client Sample ID: REGION 9 AUDIT SAMPLE #1

GC/MS Volatiles

Lot-Sample #...: H6D120117-001 **Work Order #...:** H23FT1AA **Matrix.....:** AA
Date Sampled...: 04/11/06 **Date Received..:** 04/12/06
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.22 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.064**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.044 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.017**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.049**	**0.010**	**ug**	**0.0011**
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.078**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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STL Knoxville - ACS

Client Sample ID: REGION 9 AUDIT SAMPLE #1

GC/MS Volatiles

Lot-Sample #...: H6D120117-001 **Work Order #...:** H23FT1AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.099**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.15**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	ND	0.10	ug	0.031
Toluene	**0.0036 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(50 - 134)
1,2-Dichloroethane-d4	92	(50 - 134)
Toluene-d8	81	(57 - 127)
Bromofluorobenzene	72	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

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REGION 9 AUDIT SAMPLE #1

GC/MS Volatiles

Lot-Sample #: H6D120117-001 **Work Order #:** H23FT1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

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Client Sample ID: REGION 9 AUDIT SAMPLE #2

GC/MS Volatiles

Lot-Sample #...: H6D120117-002 **Work Order #...:** H23FX1AA **Matrix.....:** AA
Date Sampled...: 04/11/06 **Date Received..:** 04/12/06
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.24 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.069**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	**0.053 J**	**0.10**	**ug**	**0.035**
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.018**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.053**	**0.010**	**ug**	**0.0011**
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.086**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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Client Sample ID: REGION 9 AUDIT SAMPLE #2

GC/MS Volatiles

Lot-Sample #...: H6D120117-002 **Work Order #...:** H23FX1AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.12**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.15**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	**0.036 J,B**	**0.10**	**ug**	**0.031**
Toluene	**0.0034 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(50 - 134)
1,2-Dichloroethane-d4	98	(50 - 134)
Toluene-d8	78	(57 - 127)
Bromofluorobenzene	70	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

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REGION 9 AUDIT SAMPLE #2

GC/MS Volatiles

Lot-Sample #: H6D120117-002 **Work Order #:** H23FX1AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug

STL Knoxville - ACS

Client Sample ID: REGION 9 AUDIT SAMPLE #3

GC/MS Volatiles

Lot-Sample #...: H6D120117-003 **Work Order #...:** H23F01AA **Matrix.....:** AA
Date Sampled...: 04/11/06 **Date Received..:** 04/12/06
Prep Date.....: 04/12/06 **Analysis Date..:** 04/12/06
Prep Batch #...: 6102057
Dilution Factor: 1 **Method.....:** SW846 VOST

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**0.17 B**	**0.10**	**ug**	**0.085**
Acrylonitrile	ND	0.50	ug	0.076
Benzene	**0.068**	**0.010**	**ug**	**0.0032**
Bromobenzene	ND	0.010	ug	0.0036
Bromochloromethane	ND	0.025	ug	0.012
Bromodichloromethane	ND	0.010	ug	0.0016
Bromoform	ND	0.025	ug	0.0066
Bromomethane	ND	0.050	ug	0.022
2-Butanone	ND	0.10	ug	0.035
n-Butylbenzene	ND	0.010	ug	0.0047
sec-Butylbenzene	ND	0.010	ug	0.0036
tert-Butylbenzene	ND	0.010	ug	0.0030
Carbon disulfide	**0.018**	**0.010**	**ug**	**0.0011**
Carbon tetrachloride	**0.052**	**0.010**	**ug**	**0.0011**
Chlorobenzene	ND	0.010	ug	0.0013
Chlorodibromomethane	ND	0.025	ug	0.010
Chloroethane	ND	0.050	ug	0.010
Chloroform	**0.089**	**0.010**	**ug**	**0.0019**
Chloromethane	ND	0.025	ug	0.0032
2-Chlorotoluene	ND	0.010	ug	0.0023
4-Chlorotoluene	ND	0.010	ug	0.0020
1,2-Dibromo-3-chloro-propane	ND	0.050	ug	0.020
1,2-Dibromoethane	ND	0.025	ug	0.010
Dibromomethane	ND	0.025	ug	0.010
1,2-Dichlorobenzene	ND	0.010	ug	0.0030
1,3-Dichlorobenzene	ND	0.010	ug	0.0031
1,4-Dichlorobenzene	ND	0.010	ug	0.0043
Dichlorodifluoromethane	ND	0.025	ug	0.0050
1,1-Dichloroethane	ND	0.010	ug	0.0019
1,2-Dichloroethane	ND	0.010	ug	0.0022
cis-1,2-Dichloroethene	ND	0.010	ug	0.0025
trans-1,2-Dichloroethene	ND	0.010	ug	0.0017
1,1-Dichloroethene	ND	0.010	ug	0.0023
1,2-Dichloropropane	ND	0.010	ug	0.0027
1,3-Dichloropropane	ND	0.010	ug	0.0018
2,2-Dichloropropane	ND	0.010	ug	0.0015
cis-1,3-Dichloropropene	ND	0.010	ug	0.0030
trans-1,3-Dichloropropene	ND	0.010	ug	0.0020

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Client Sample ID: REGION 9 AUDIT SAMPLE #3

GC/MS Volatiles

Lot-Sample #...: H6D120117-003 **Work Order #...:** H23F01AA **Matrix.....:** AA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	0.010	ug	0.0010
Ethylbenzene	ND	0.010	ug	0.0013
Hexachlorobutadiene	ND	0.025	ug	0.0048
2-Hexanone	ND	0.10	ug	0.0099
Iodomethane	ND	0.050	ug	0.0016
Isopropylbenzene	ND	0.010	ug	0.0023
p-Isopropyltoluene	ND	0.010	ug	0.0038
Methylene chloride	**0.12**	**0.025**	**ug**	**0.013**
4-Methyl-2-pentanone	ND	0.10	ug	0.014
Naphthalene	ND	0.025	ug	0.010
n-Propylbenzene	ND	0.010	ug	0.0029
Styrene	ND	0.010	ug	0.0017
1,1,1,2-Tetrachloroethane	ND	0.010	ug	0.0010
1,1,2,2-Tetrachloroethane	ND	0.025	ug	0.011
Tetrachloroethene	**0.14**	**0.010**	**ug**	**0.0021**
Tetrahydrofuran	**0.054 J,B**	**0.10**	**ug**	**0.031**
Toluene	**0.0032 J**	**0.010**	**ug**	**0.0022**
1,2,3-Trichlorobenzene	ND	0.025	ug	0.014
1,2,4-Trichloro-benzene	ND	0.025	ug	0.0030
1,1,1-Trichloroethane	ND	0.025	ug	0.0016
1,1,2-Trichloroethane	ND	0.025	ug	0.0050
Trichloroethene	ND	0.010	ug	0.0050
Trichlorofluoromethane	ND	0.050	ug	0.0049
1,2,3-Trichloropropane	ND	0.025	ug	0.0081
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.050	ug	0.0018
1,2,4-Trimethylbenzene	ND	0.010	ug	0.0048
1,3,5-Trimethylbenzene	ND	0.010	ug	0.0028
Vinyl acetate	ND	0.050	ug	0.012
Vinyl chloride	ND	0.010	ug	0.0032
m-Xylene & p-Xylene	ND	0.020	ug	0.0034
o-Xylene	ND	0.010	ug	0.0017
Xylenes (total)	ND	0.030	ug	0.0048

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(50 - 134)
1,2-Dichloroethane-d4	103	(50 - 134)
Toluene-d8	80	(57 - 127)
Bromofluorobenzene	74	(50 - 125)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

REGION 9 AUDIT SAMPLE #3

GC/MS Volatiles

Lot-Sample #: H6D120117-003 **Work Order #:** H23F01AA **Matrix:** AA

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug